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REPORT RESUMES

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A TRANSLATION OF RUSSIAN FIRST-GRADE ARITHMETIC.

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THIS IS AN ENGLISH TRANSLATION OF A RUSSIAN TEXTBOOK ON FIRST-GRADE ARITHMETIC COMPLETE WITH GRAPHS, PICTURES, PROBLEMS, AND LESSONS. ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION APPEAR IN 892 PROBLEMS. THE THREE SECTIONS ARE ENTITLED "THE FIRST TEN," "THE SECOND TEN," AND "THE FIRST HUNDRED." THIS TRANSLATION WAS DONE IN CONNECTION WITH RESEARCH CONTRACT NO. 403 (7672) WHEREIN THE RUSSIAN APPROACH TO THE TEACHING OF MATHEMATICS IS STUDIED. (GC)

403

OFFICIAL RESEARCH FILE COPY

A TRANSLATION OF

RUSSIAN 1st GRADE ARITHMETIC

АРИФМЕТИКА

NOTE: This is an English translation of a Russian textbook used at their first grade level. It should be noted that the Russian 10 year school corresponds to our 12 year school, so that the age of a typical American third grade student is approximately the same as the age of a Russian first grade student.

ED002866

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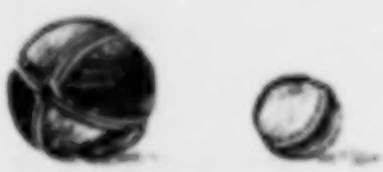
In connection with Research Contract No. 403 [7672] with the U. S. Office of Education, the Russian approach to the teaching of mathematics was studied. This translation of a Russian first grade text book was done in part with funds from this contract in connection with Section G-V of the contract. It was duplicated at University expense.

Alexander Calandra
Washington University
St. Louis 5, Missouri

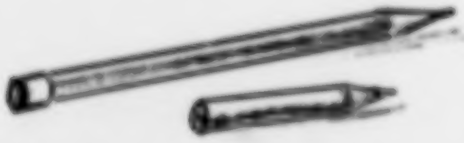
3414a
(236)

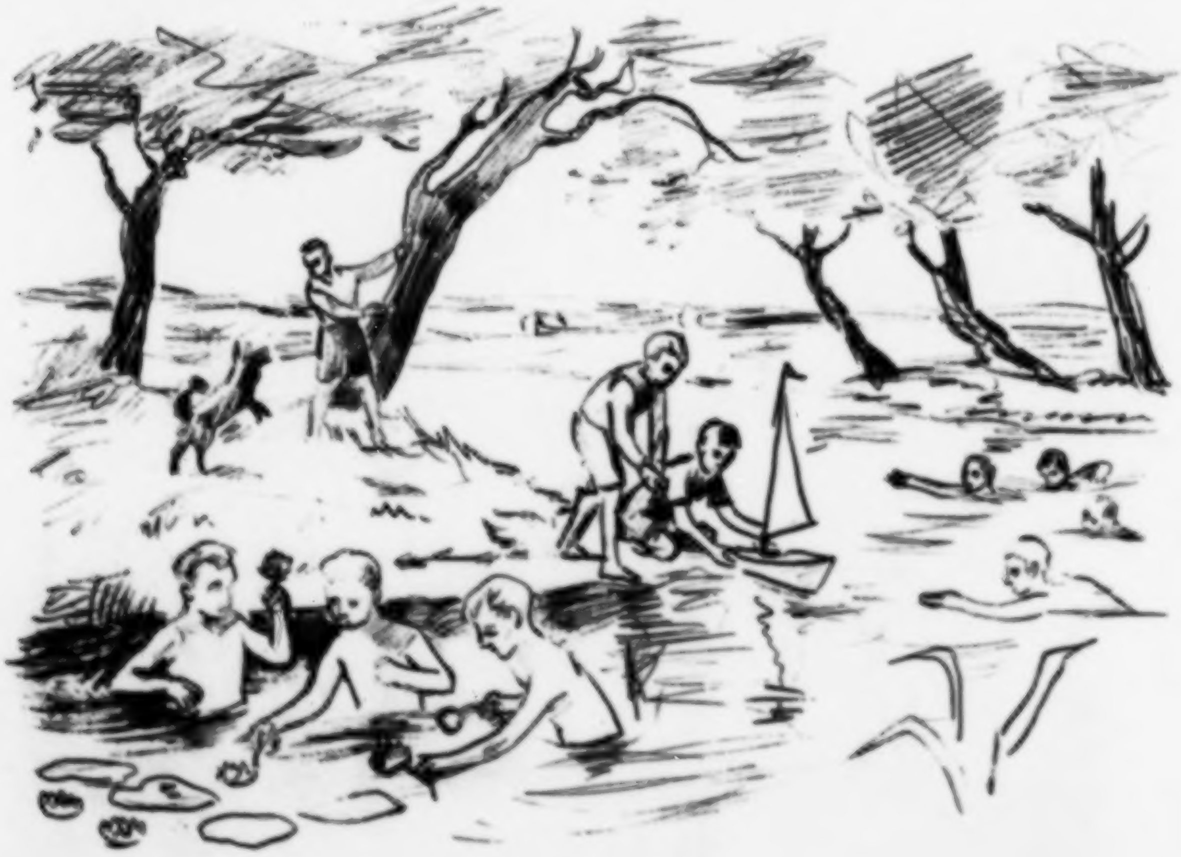
THE FIRST TEN

Larger-----Smaller



Longer-----Shorter



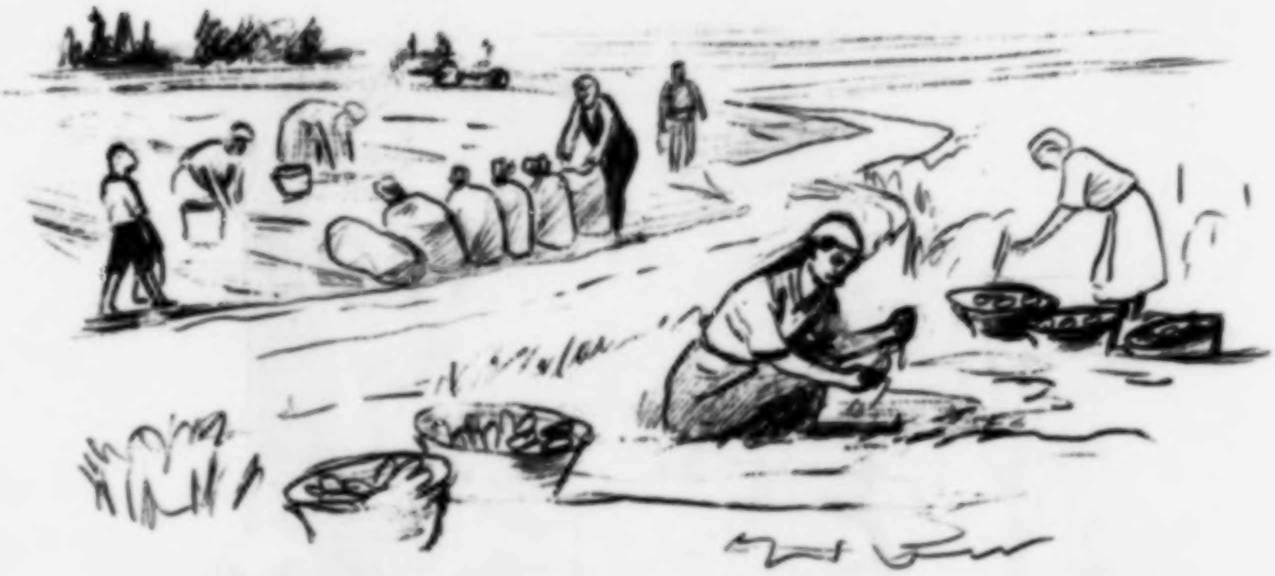


How many children? How many trees?
How many toy boats?

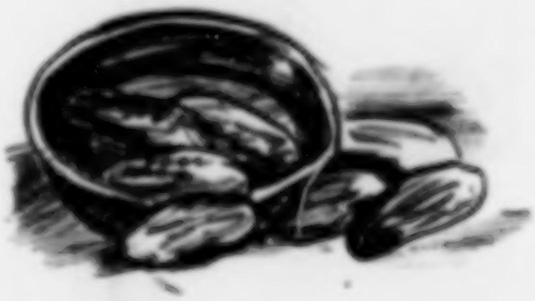
Show as many [little] sticks, as there are [drawn] trees.

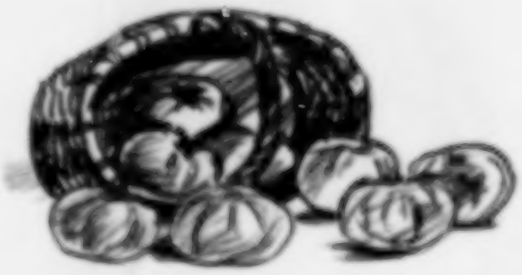
Put down as many [little] circles, as there are [drawn] children.

Note to the teacher: Almost all nouns in this text are used in diminutive form, so that "a stick" is really "a little stick." Inasmuch as such translation is clumsy, I bracketed the word "little" but indicated its use. Certain other words and expressions do not lend themselves to exact translation. In such cases, they are used in brackets. For example, above: [drawn] children means "children in the picture" or "illustrated children."

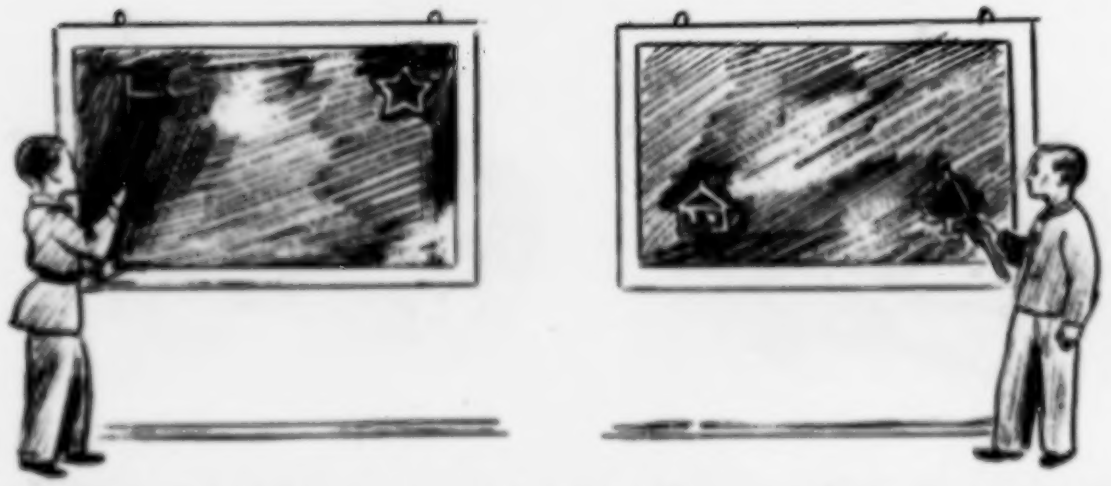


Show as many [little] sticks, as there are [drawn] sacks.





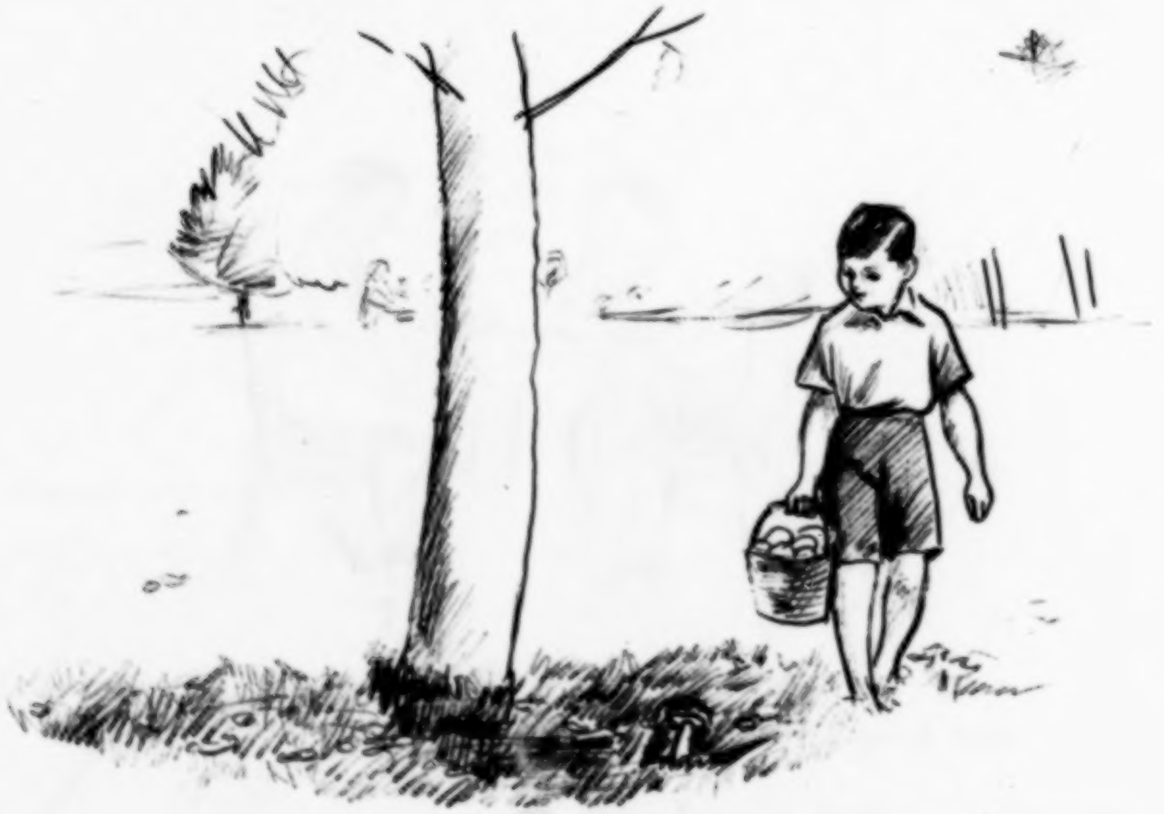
Put down as many circles, as there are [drawn] cucumbers.
Put down as many circles, as there are [drawn] tomatoes.

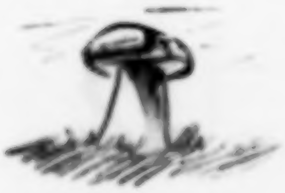


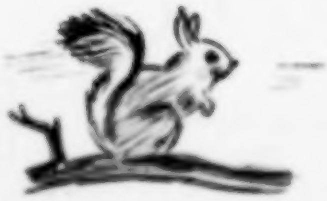
Where is located the [little] flag: above or below? to the left or to the right?

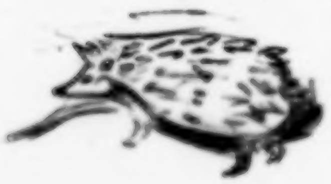
Where are located the [little] star? the [little house, the [little] Christmas tree?

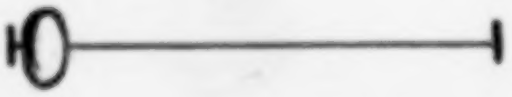
MANY-----ONE











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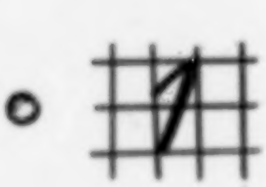
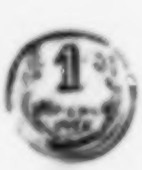
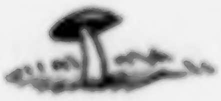
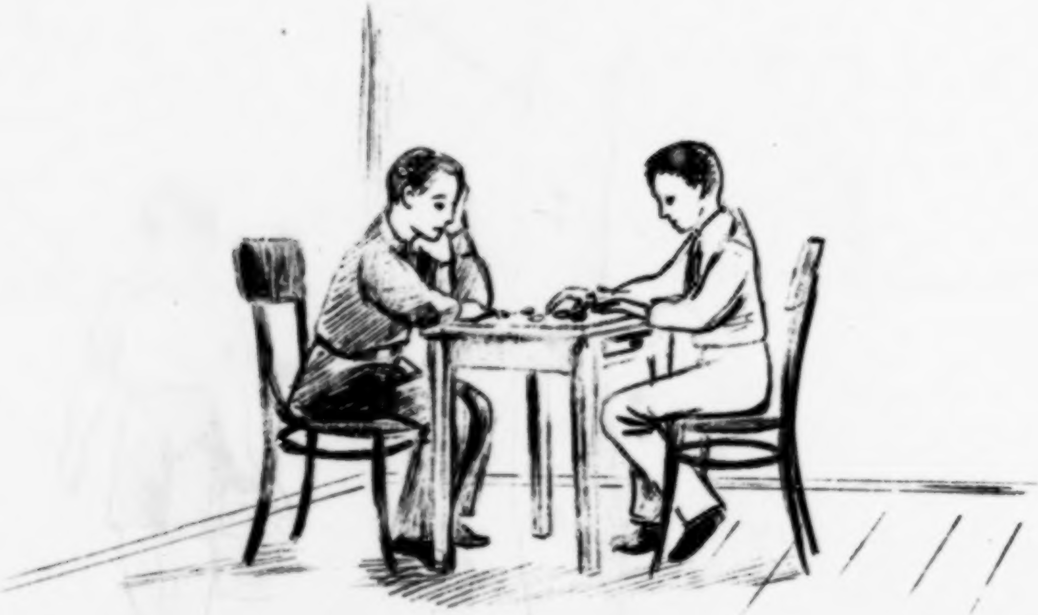




Draw  Write under the drawing 1.

NUMBER 2

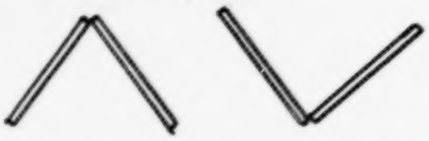


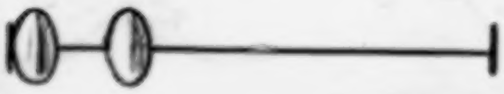
Put down 1 [little] stick.

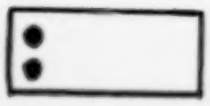
Put down another [little] stick.

How many little sticks are there now?

Construct from little sticks:







2

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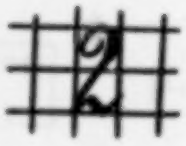
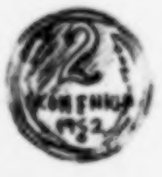
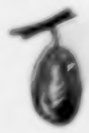
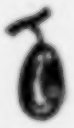
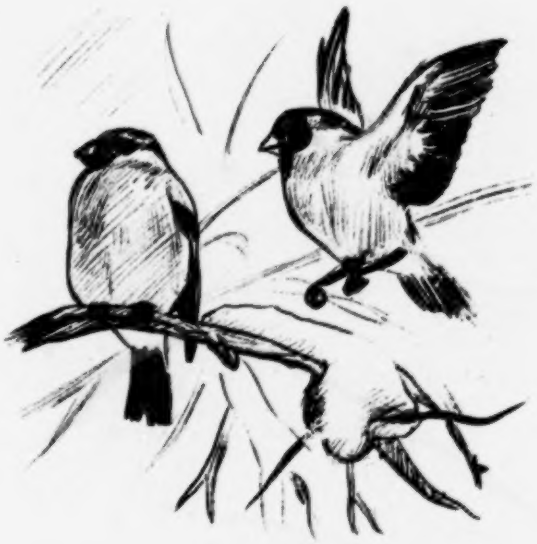




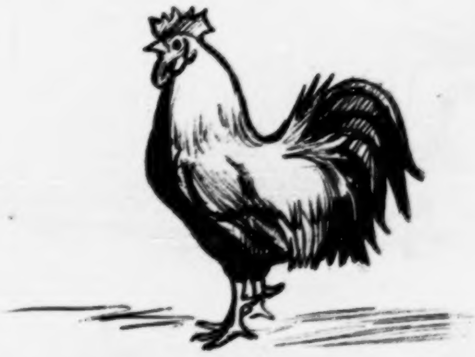
How many hands does a man have? feet? eyes? ears?

Draw   Write under the drawing 2.

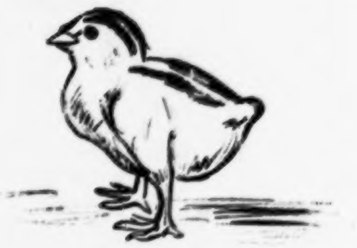


1. [little] bird sat on a branch. Another [little] bird came flying to it.

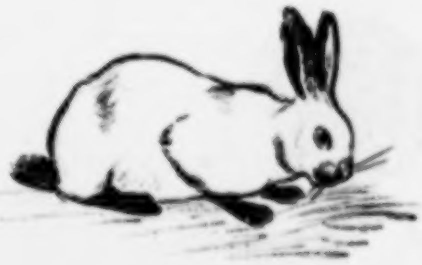
How many birds are there now?



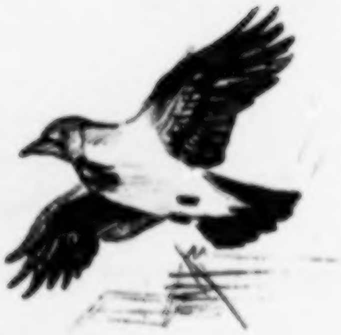
How many legs has the rooster?



the chick?

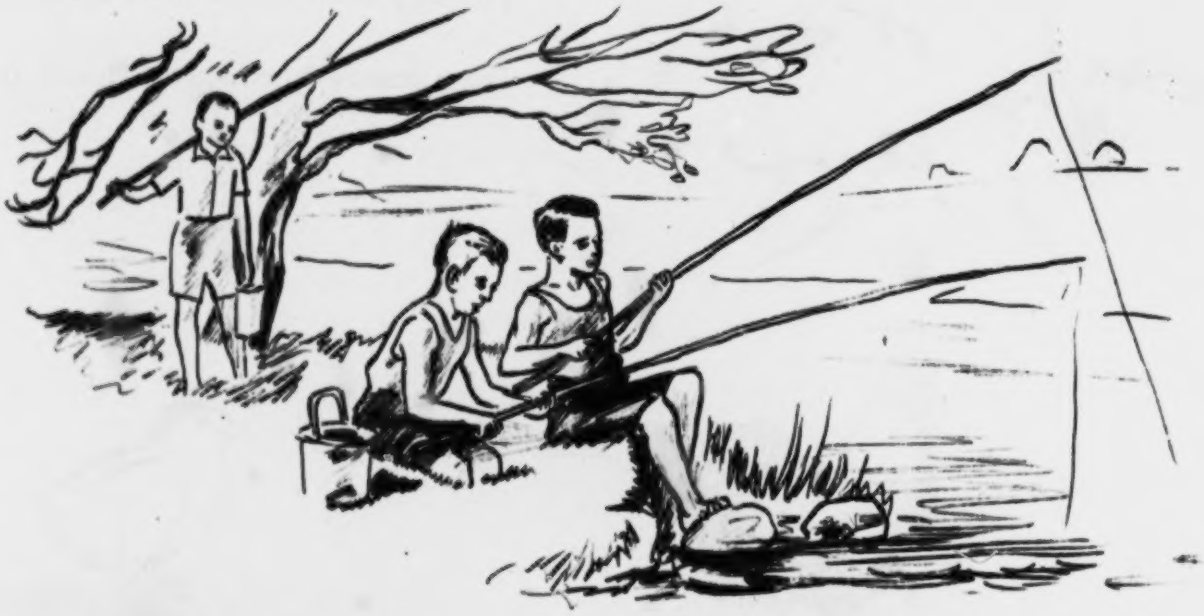


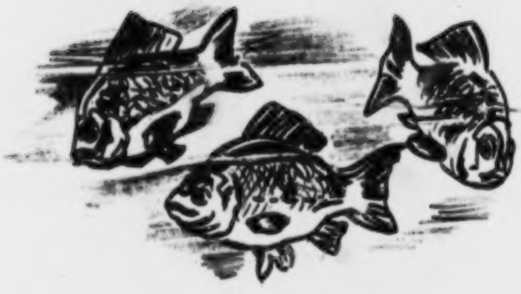
How many ears?

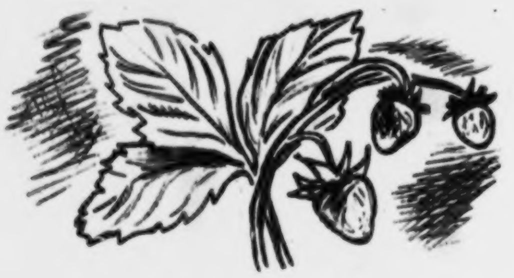


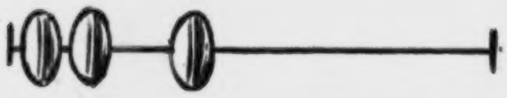
How many wings?

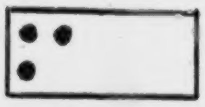
NUMBER 3



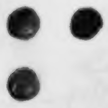


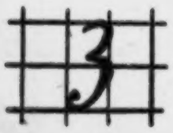


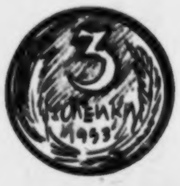




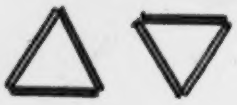
3

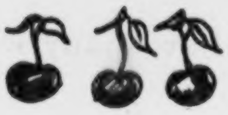




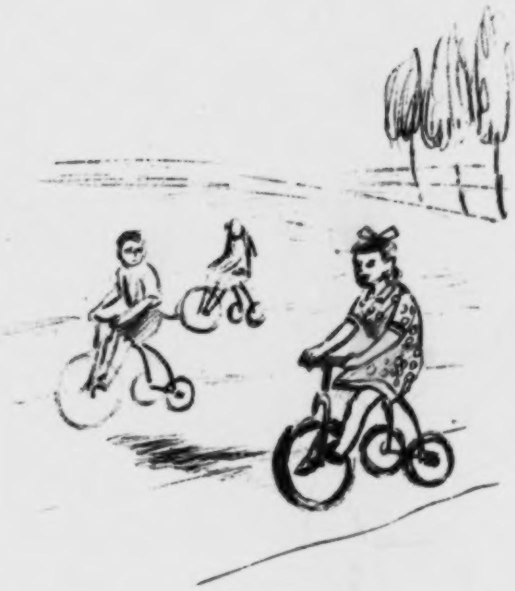


Put together from [little] sticks:



Draw  **Write under the drawing 3.**

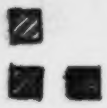
Note: "Put together" can also be stated as "assemble" or "construct" throughout the book.



2 boys and 1 girl are riding on tricycles. How many children are riding?

A child's tricycle has 1 wheel in front and two in back. How many wheels are there on a child's tricycle?

Lay out 3 [little] squares thus:

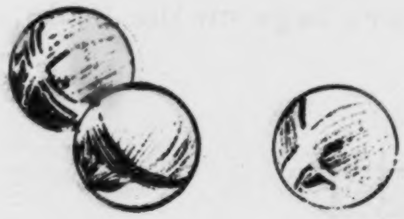


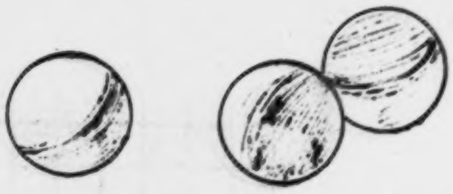
How else is it possible to lay out the 3 [little] squares?

From what coins is it possible to make up 3 copecks?

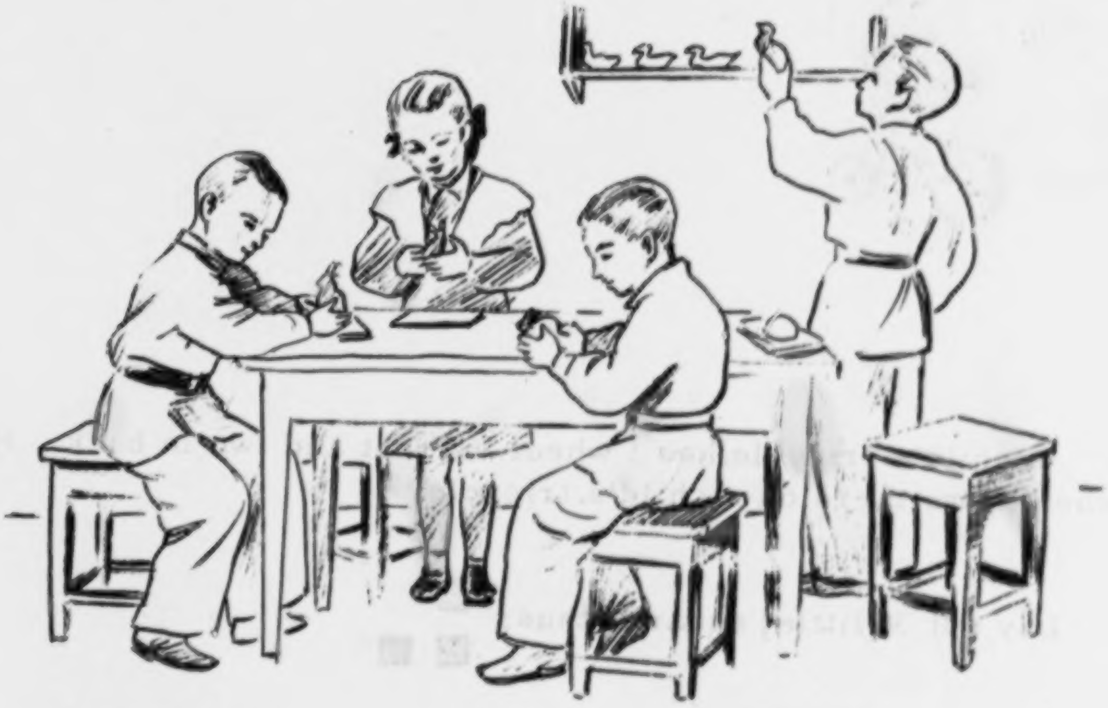
Collect 3 cents from the coins of the cut-out chart.

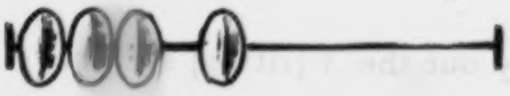
Take 2 steps forward, 3 steps forward.

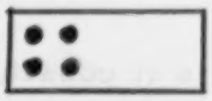




NUMBER 4







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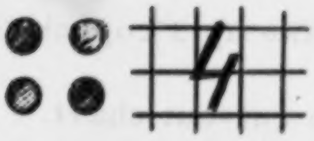
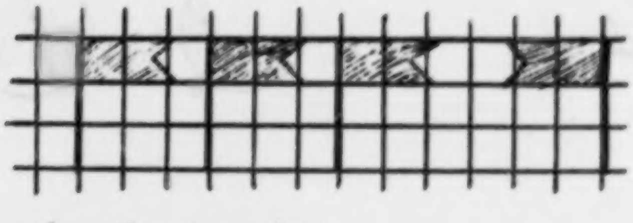


Put together a square from 4 [little] sticks.

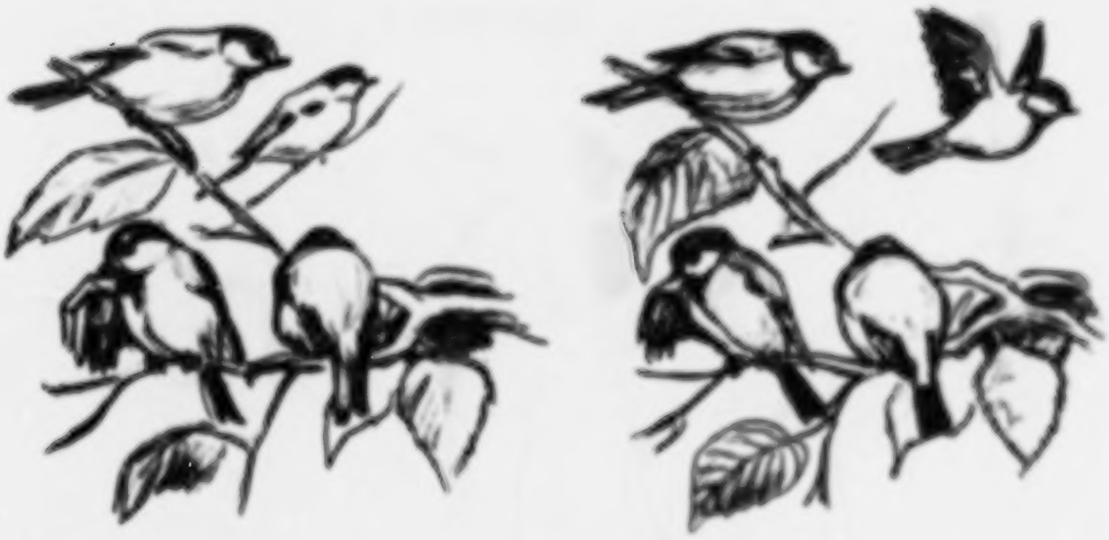
Put down 3 [little] sticks and another [little] stick. How many many [little] sticks did we get?

Show as many [little] sticks as there are legs on the table, on a chair.

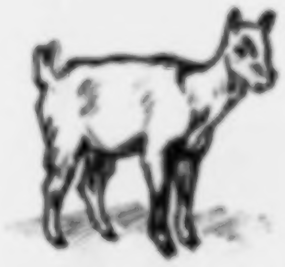
Draw



Write 4 under the drawing.

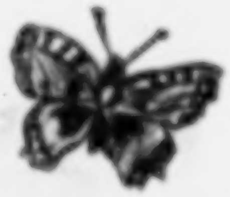


4 birds sat on the branch. One flew away. How many birds remained on the branch?



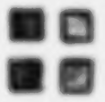
How many legs does the goat have?

How many wheels are there on a car?

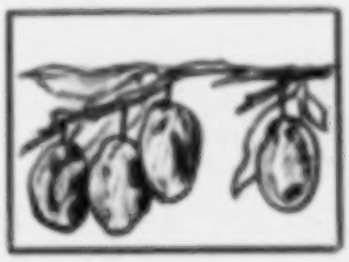


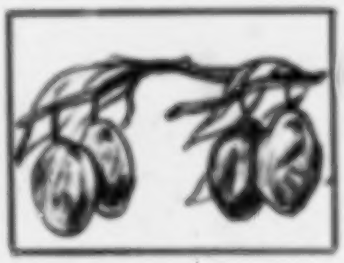
How many wings does a butterfly have?

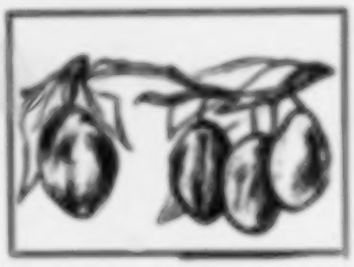
Place 4 squares thus:



How else is it possible to arrange 4 squares?



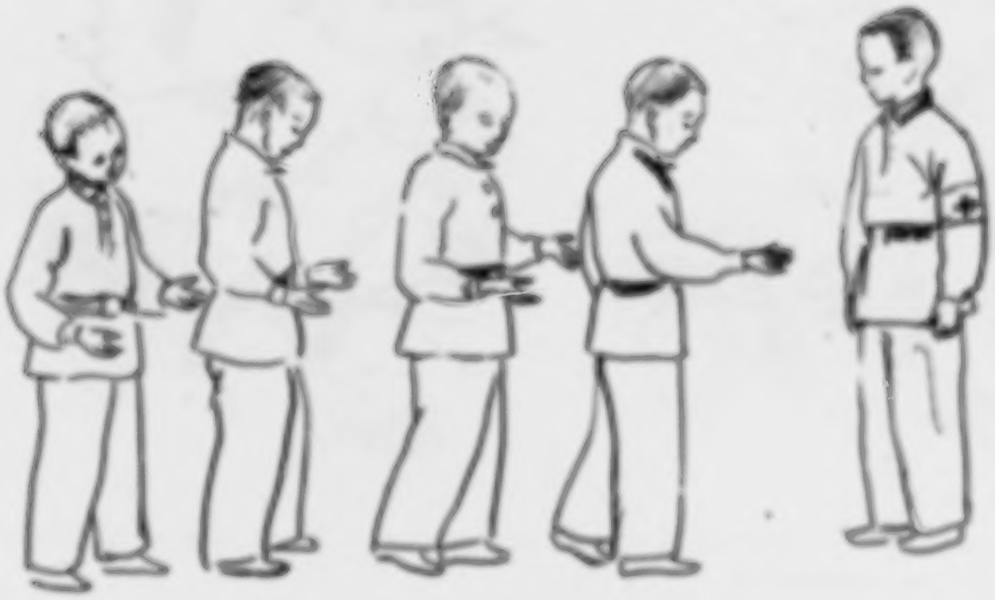


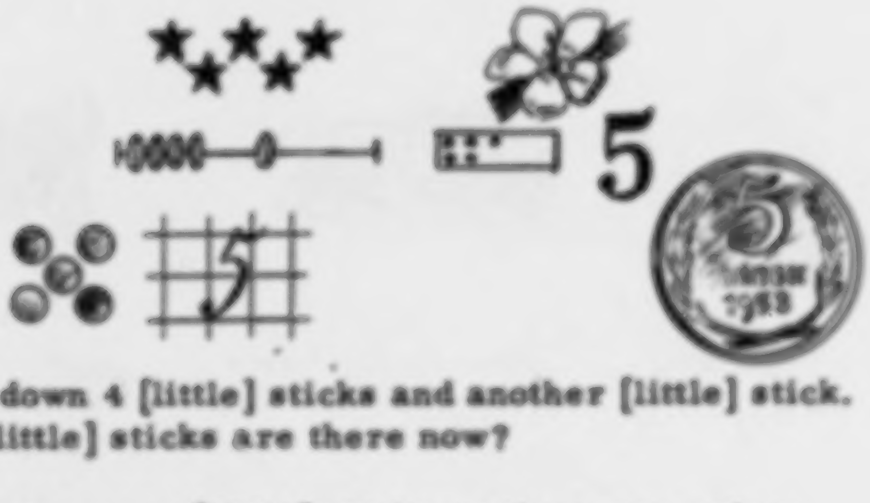


Write down using a numeral the number of wheels there are on a car.

How many legs does a cow have? A rooster? A dog?

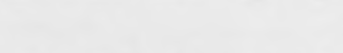
NUMBER 5



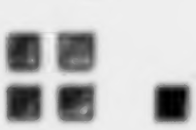


Put down 4 [little] sticks and another [little] stick. How many [little] sticks are there now?

Show as many [little] sticks as there are points in the [little] star.

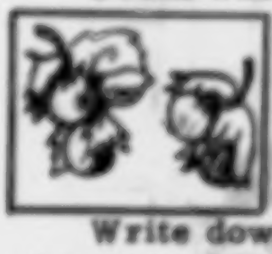
Draw 

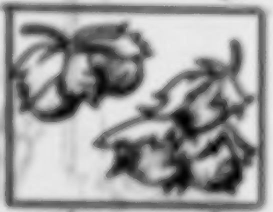
Write under the drawing 5.

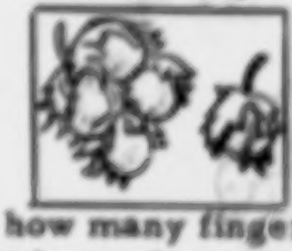
Lay out 5 [little] squares thus: 

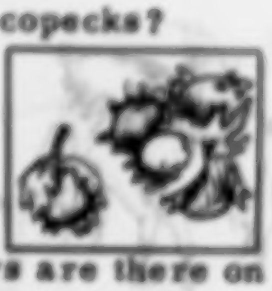
How else is it possible to lay out the 5 [little] squares?

From what coins is it possible to make up 5 copecks?

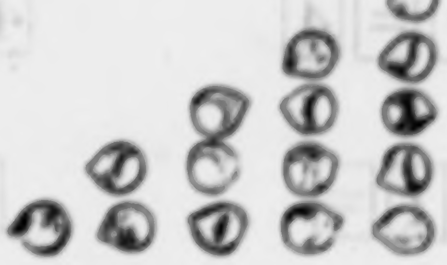




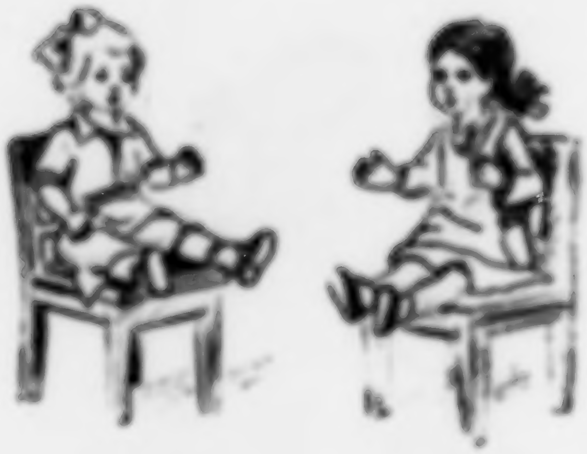




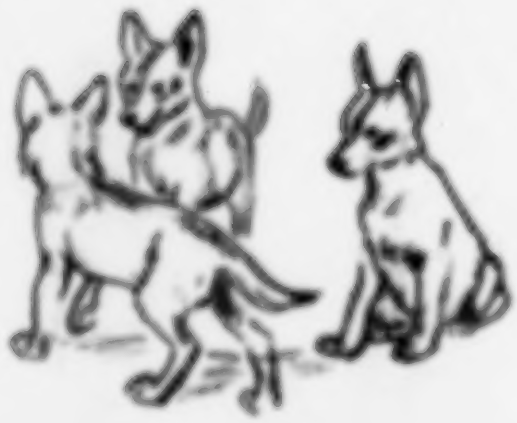
Write down using numbers: how many fingers are there on one hand, how many paws does a cat have, how many legs does a chicken have?



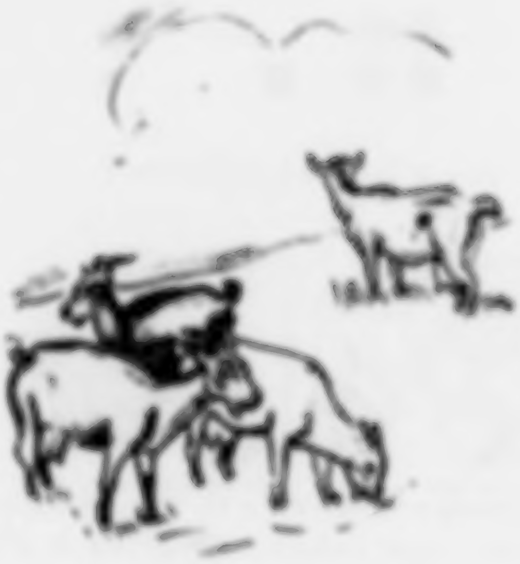
Count and write down using numbers how many nuts there are in each row.



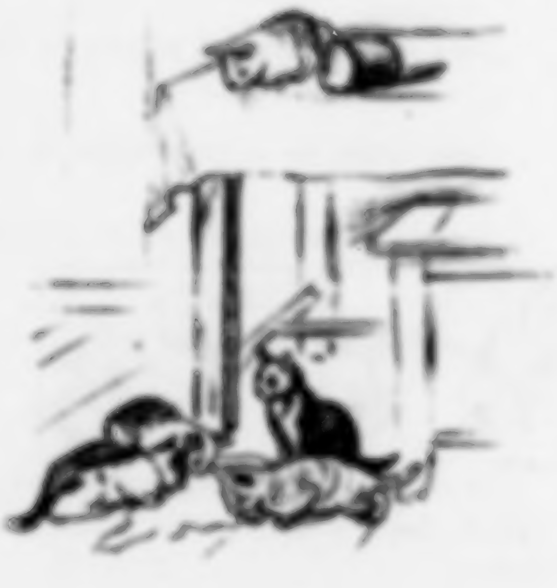
$\boxed{1}\boxed{+}\boxed{1}\boxed{=}\boxed{2}$



$\boxed{2}\boxed{+}\boxed{1}\boxed{=}\boxed{3}$



$\boxed{3}\boxed{+}\boxed{1}\boxed{=}\boxed{4}$



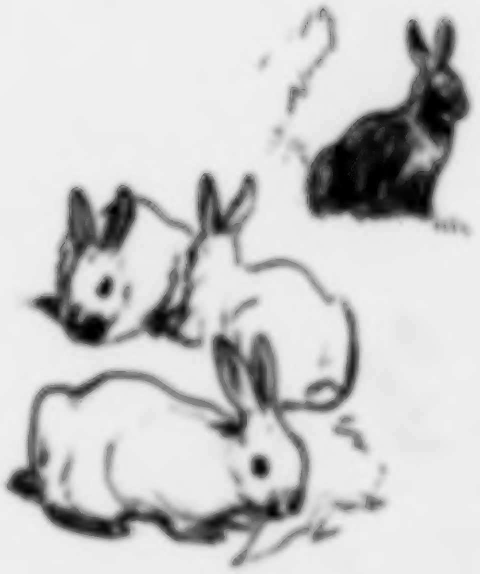
$\boxed{4}\boxed{+}\boxed{1}\boxed{=}\boxed{5}$

$\boxed{1}\boxed{+}\boxed{1}\boxed{=}$

$\boxed{2}\boxed{+}\boxed{1}\boxed{=}$

$\boxed{3}\boxed{+}\boxed{1}\boxed{=}$

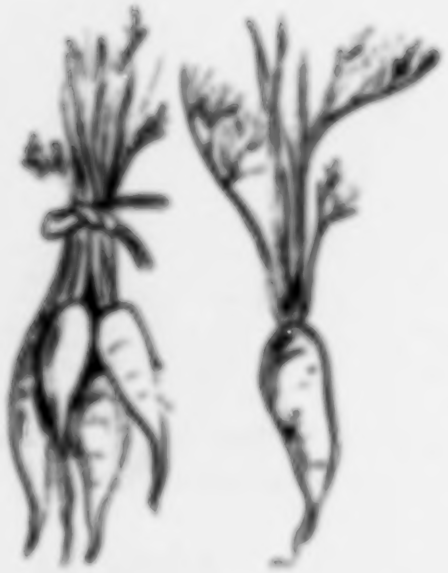
$\boxed{4}\boxed{+}\boxed{1}\boxed{=}$



How many white rabbits are there?

How many black rabbits?

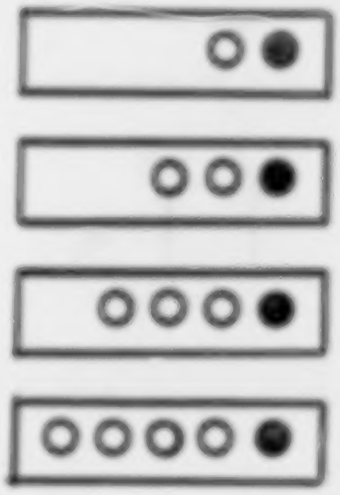
How many rabbits altogether?

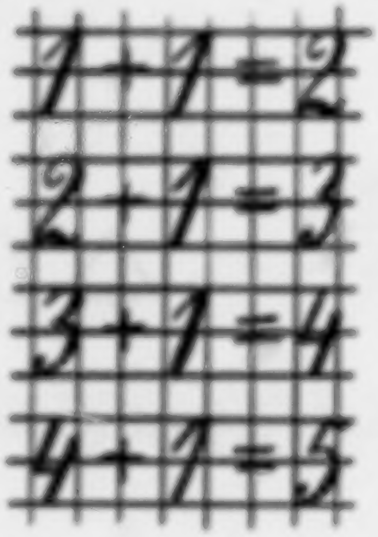


How many carrots are there at the left?

How many carrots at the right?

How many carrots altogether?





1 + 1 = 2

2 + 1 = 3

3 + 1 = 4

4 + 1 = 5

4 + 1 =

3 + 1 =

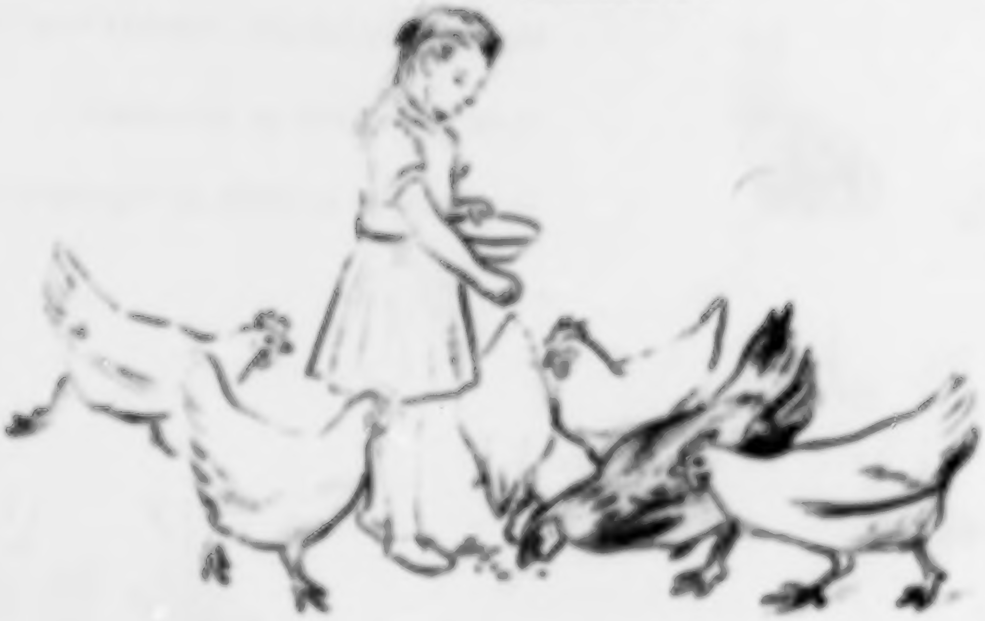
2 + 1 =

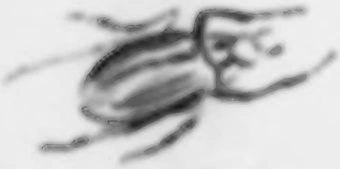
1 + 1 =

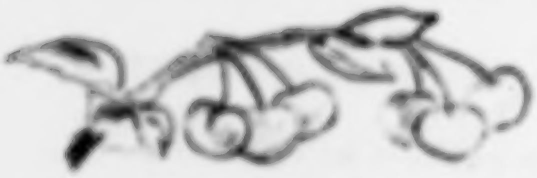
3 + 1 =

4 + 1 =

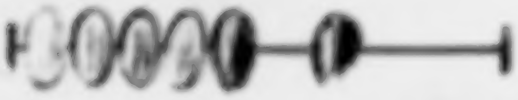
NUMBER 6

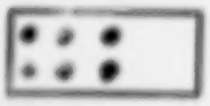




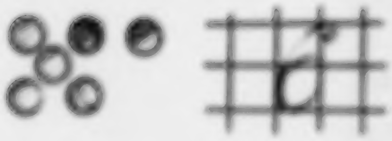


Put down as many circles as the beetle has legs, as there are cherries [drawn] on the branch.

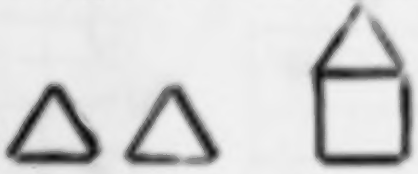




6

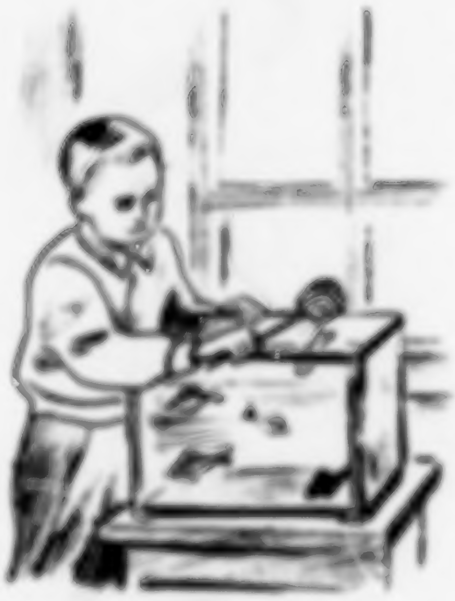


Put together from 6 [little] sticks:

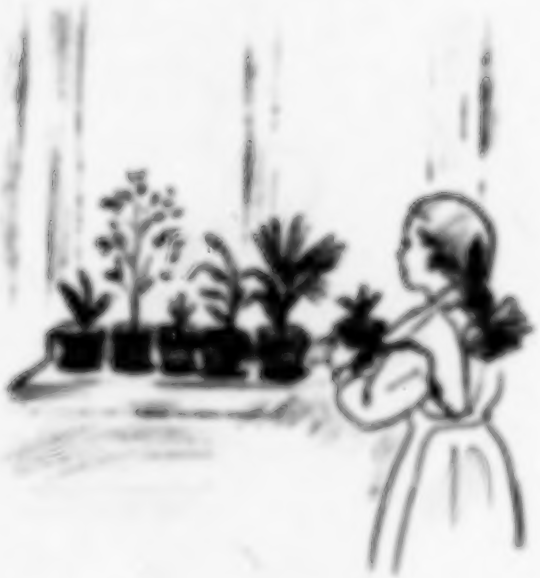


Put down 5 [little] sticks and then another. How many [little] sticks are there now?

Draw 6 cherries and write under the drawing 6.

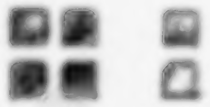


$4 + 1 = 5$



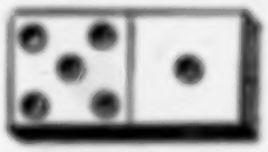
$5 + 1 = 6$

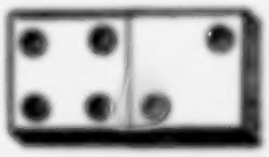
Lay out 6 [little] squares thus:

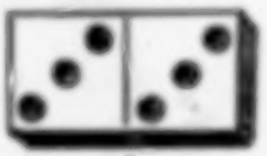


How else it is possible to lay out the 6 [little] squares?

Collect 6 copecks from the coins of the cut-out chart.







How can one lay out 6 cookies on 2 [little] saucers?

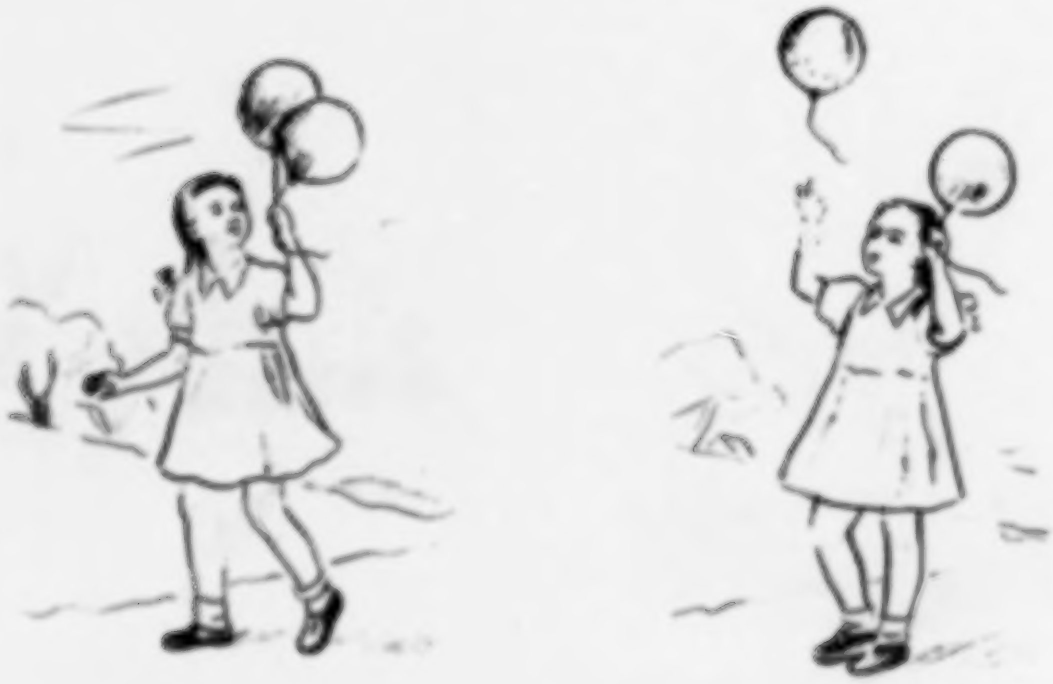
What numbers are missing?

1			4		6

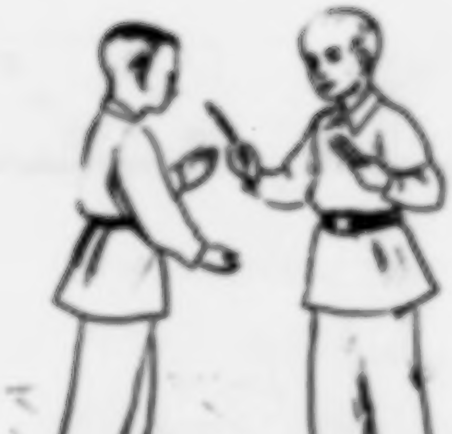
Count from 1 to 6 and from 6 to 1.

$3 + 1 =$ $5 + 1 =$ $1 + 1 =$

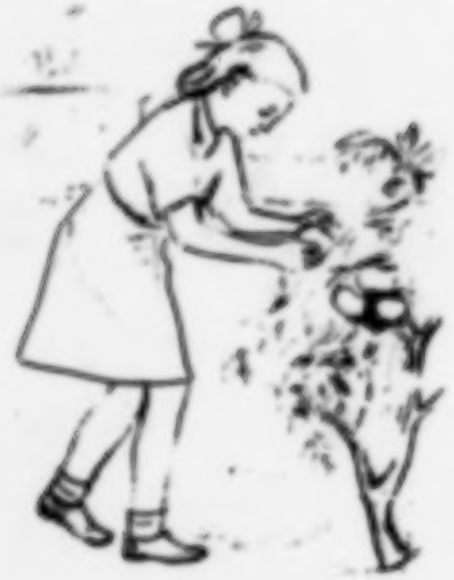
$4 + 1 =$ $2 + 1 =$ $5 + 1 =$



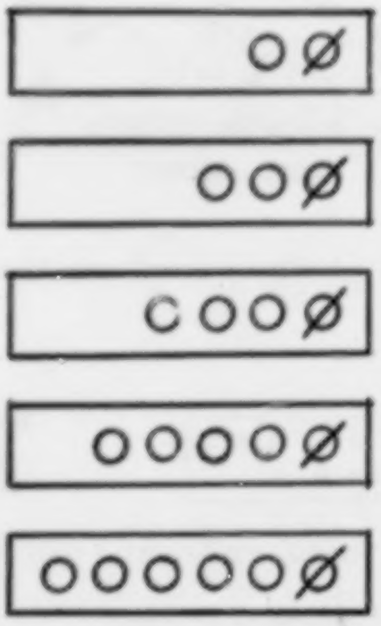
$\boxed{2}\boxed{-}\boxed{1}\boxed{=}\boxed{1}$



$\boxed{3}\boxed{-}\boxed{1}\boxed{=}\boxed{2}$



$\boxed{4}\boxed{-}\boxed{1}\boxed{=}\boxed{3}$



2 - 1 = 1

3 - 1 = 2

4 - 1 = 3

5 - 1 = 4

6 - 1 = 5

5 - 1 =

4 - 1 =

6 - 1 =

3 - 1 =

2 - 1 =

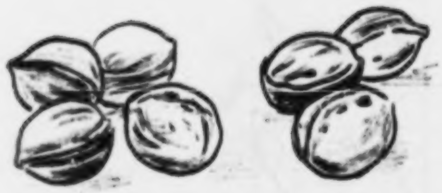
4 - 1 =

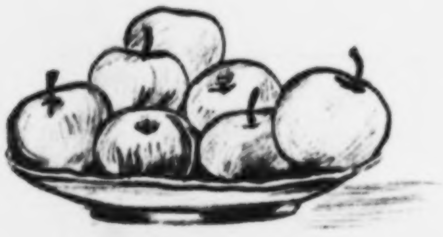
6 - 1 =

5 - 1 =

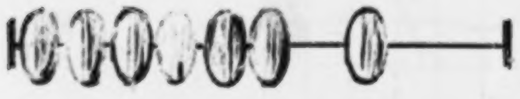
3 - 1 =

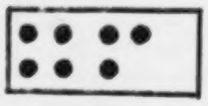
NUMBER 7



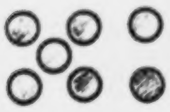


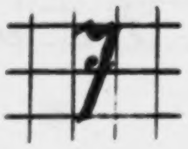
Circle as many squares as there are [drawn] nuts, as there are apples in the vase.



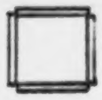


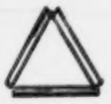
7





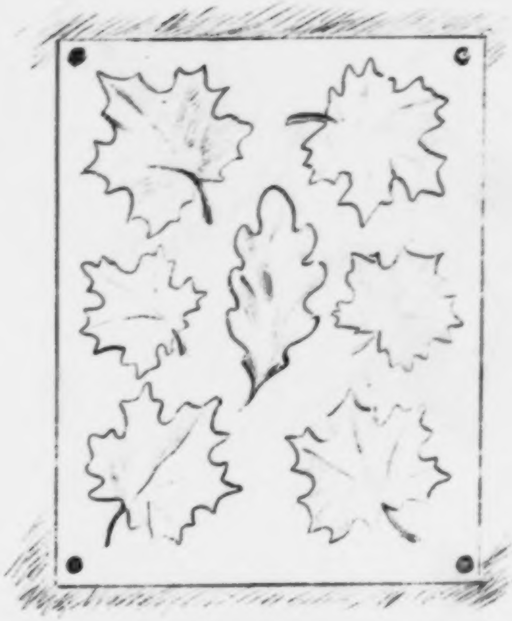
Put together from 7 [little] sticks:

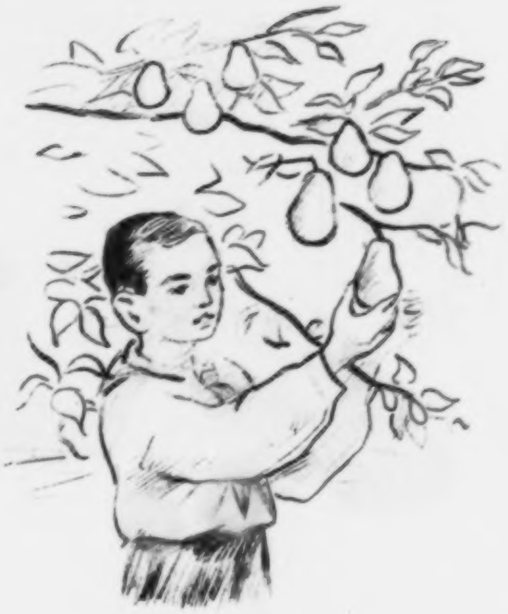




Put down 6 [little] sticks and then another. How many [little] sticks are there now?

Draw 7 apples and write under the drawing 7.





A girl dried 6 maple leaves and 1 oak leaf. How many leaves did she dry altogether?

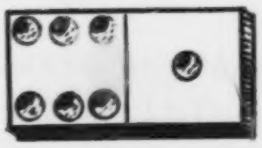
6 + 1 = 7

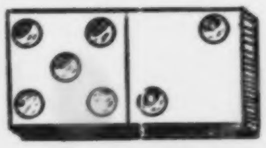
7 pears grow on a branch. The boy picks 1 pear. How many pears remain on the branch?

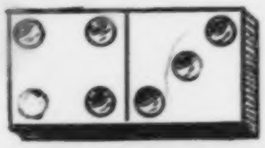
7 - 1 = 6

Lay out 7 [little] squares thus: ▨ ▨ □ □
▨ ▨ □

How else is it possible to lay out 7 [little] squares?







How can one distribute 7 apples on 2 plates?

Collect 7 copecks from the coins of the cut-out chart.

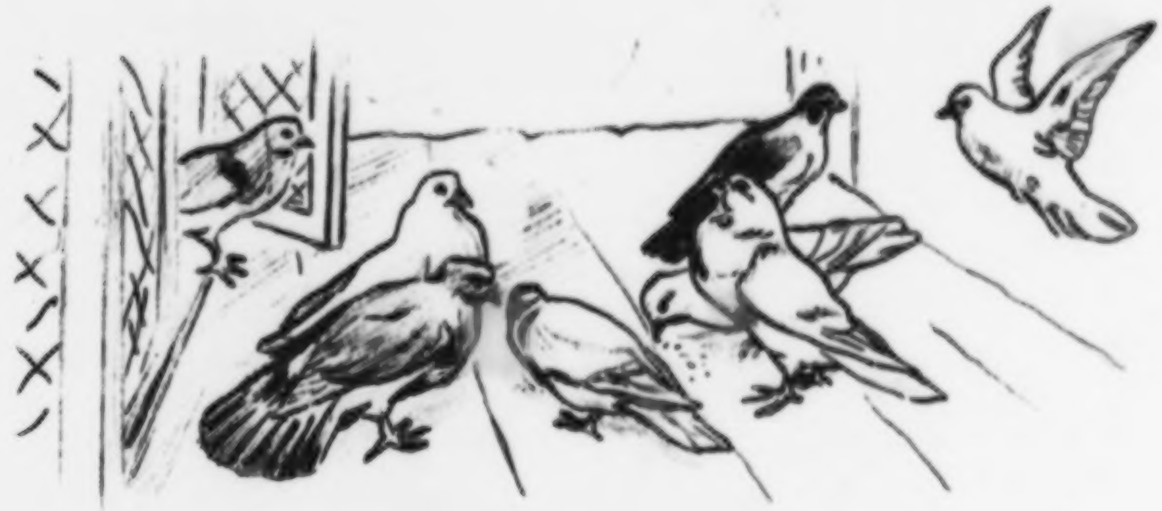
Count from 1 to 7 and from 7 to 1.

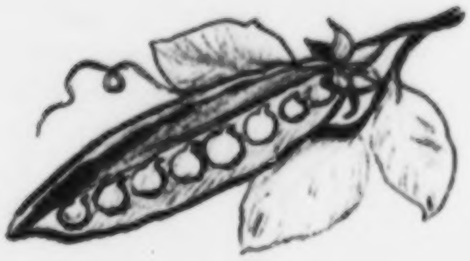
4 + 1
5 + 1
6 + 1

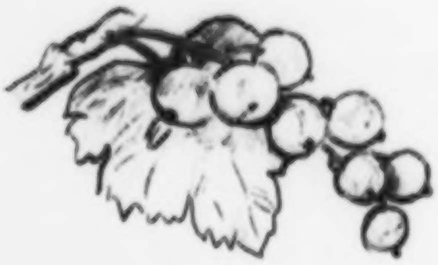
7-1
6 - 1
5 - 1

3 - 1
3 + 1
5 - 1

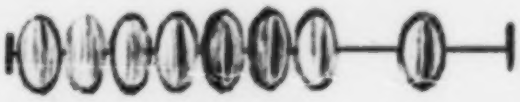
NUMBER 8

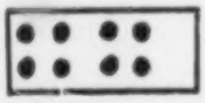






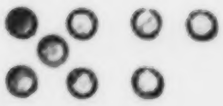
Put down as many [little] circles as there are berries on the branch.

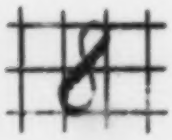


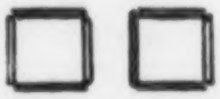


8

Put together 2 squares
from the [little] sticks:

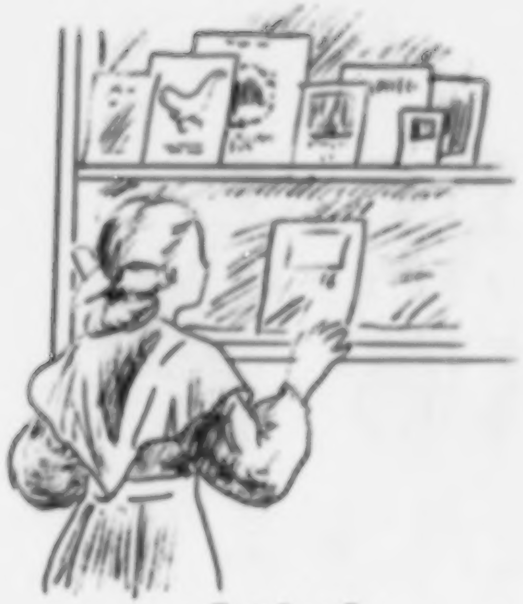




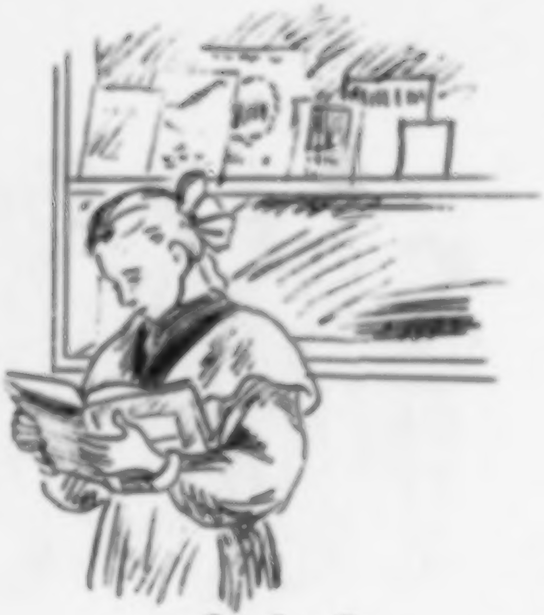


Put down 7 [little] sticks and another one. How many [little] sticks are there?

Draw 8 balls and write under the drawing 8.



7 + 1 = 8

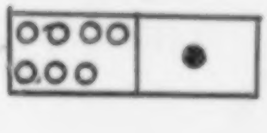


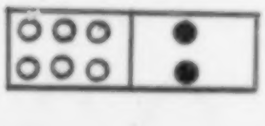
8 - 1 = 7

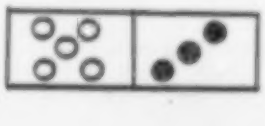
Kostya learned how to write 7 numerals, and then 1 more numeral. How many numerals could he write altogether?

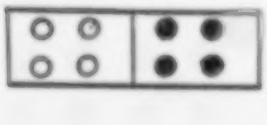
Yura had 8 pigeons. 1 pigeon flew away. How many pigeons did Yura have left?

Arrange 8 sticks into 7 and 1. How else is it possible to arrange 8 sticks?









How can you arrange 8 pencils in 2 boxes?

Take 8 kopeks from the coins in the cut-out chart.

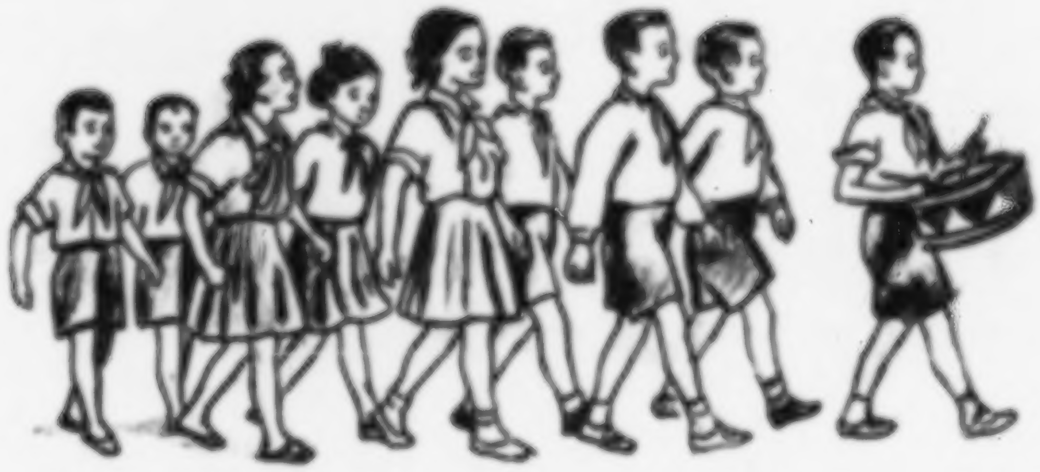
Count from 1 to 8 and from 8 to 1.

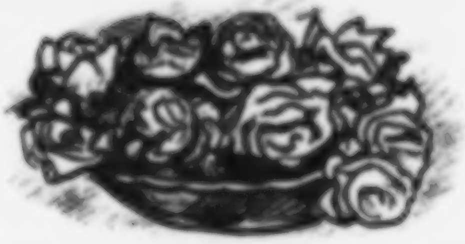
5 + 1
6 + 1
7 + 1

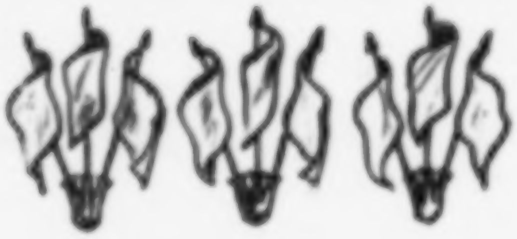
8 - 1
7 - 1
6 - 1

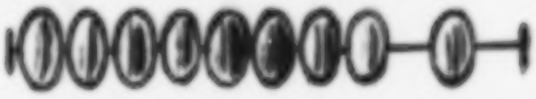
5 - 1
4 - 1
4 + 1

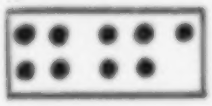
NUMBER 9



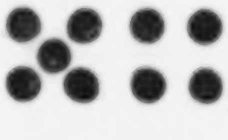


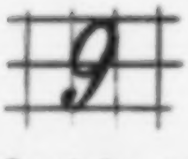




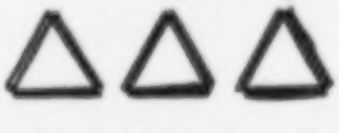


9





Put together 3 triangles from the [little] sticks:

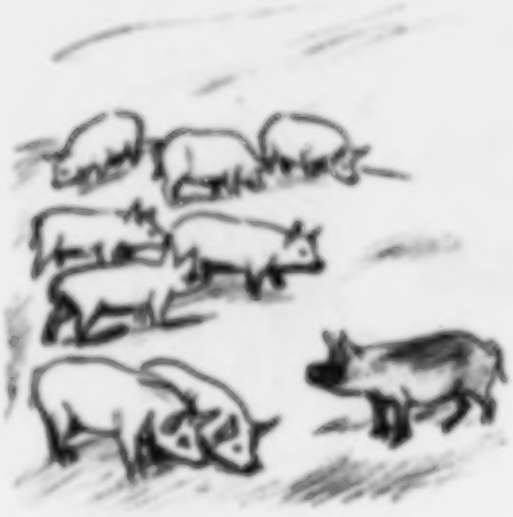


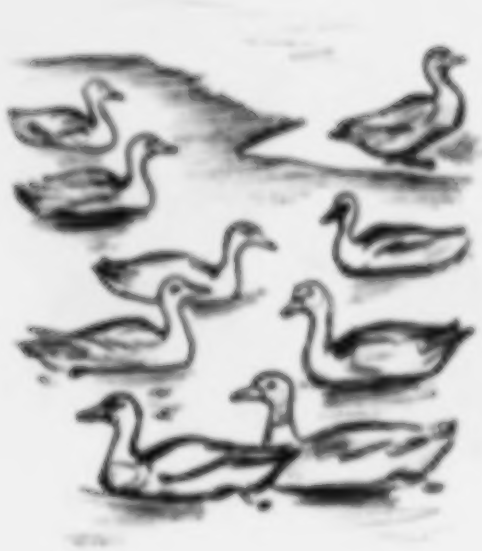
Put down 8 [little] sticks and another [little] stick. How many [little] sticks are there?

Draw 9 [little] Christmas trees and write under the drawing 9.

What are the missing numbers?

1 2 ☐ 4 5 6 ☐ 8 ☐





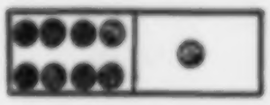
$8 + 1 = 9$

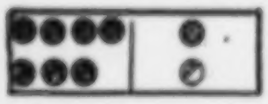
$9 - 1 = 8$

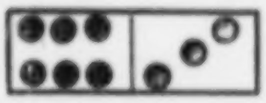
Senia cut out 8 circles and then another circle. Altogether how many circles did Senia cut out?

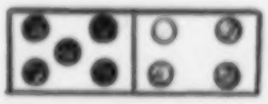
9 boys played hide-and-seek. 1 boy left the game. How many boys continued the game?

Distribute 9 circles into 8 and 1. How else is it possible to distribute 9 circles?









How can one distribute 9 mushrooms into 2 piles?

Collect 9 cents from the coins in the cut-out table.

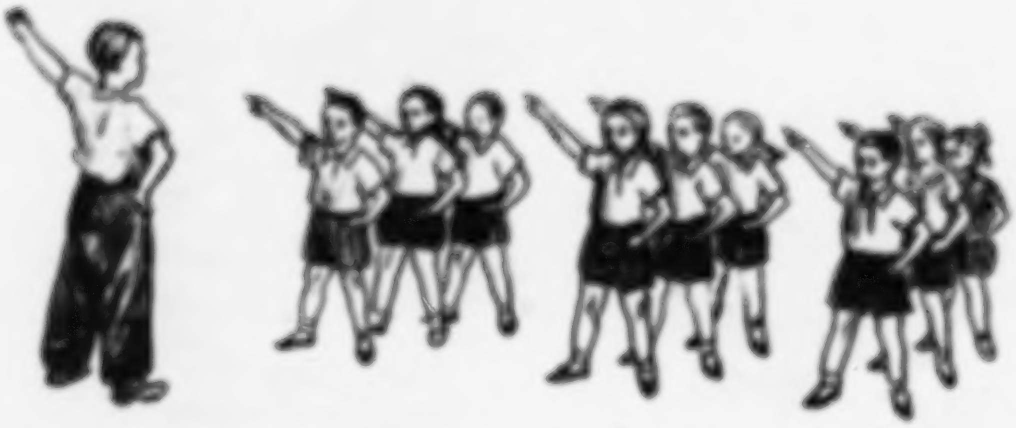
Count from 1 to 9 and from 9 to 1.

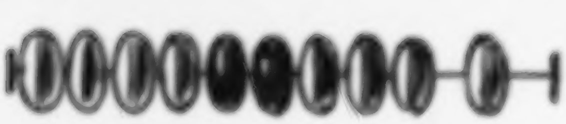
$4 + 1$
$6 + 1$
$8 + 1$

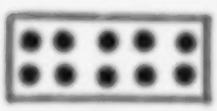
$9 - 1$
$8 - 1$
$7 - 1$

$5 - 1$
$5 + 1$
$4 - 1$

NUMBER 10

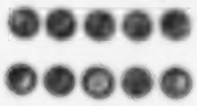


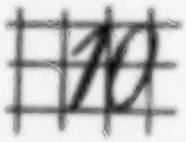


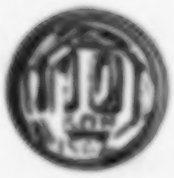


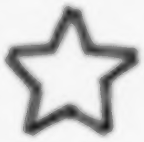
10

Put together
from 10 [little] sticks:









Lena drew 9 [little] mushrooms and 1 large mushroom. How many mushrooms did Lena draw altogether?

There were 10 colored pencils in a box. A boy took 1 pencil. How many pencils remained in the box?

Draw 10 mushrooms and write under the drawing 10.

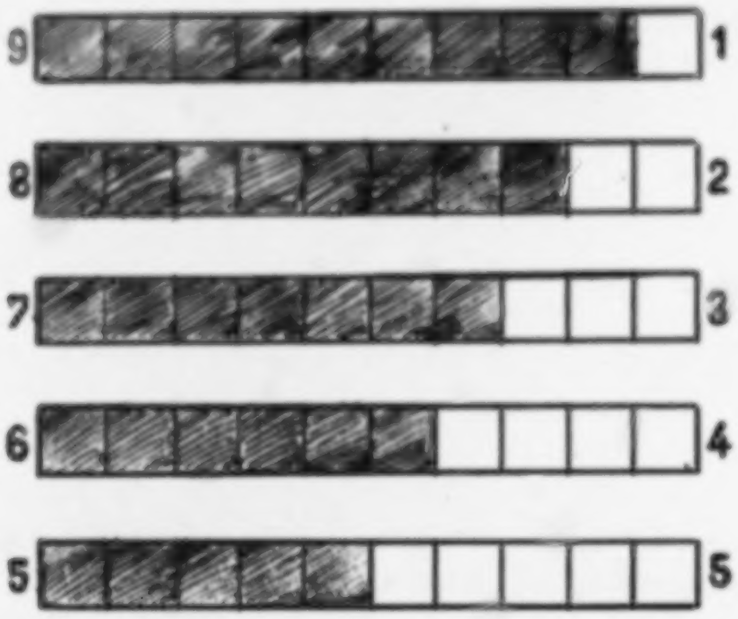
What numbers are missing?

1	2		4		6		8		10

$9 + 1 = 10$

Lay out 10 [little] squares thus:

How else is it possible to lay out the 10 [little] squares?



How is it possible to lay out 10 nuts on 2 saucers?

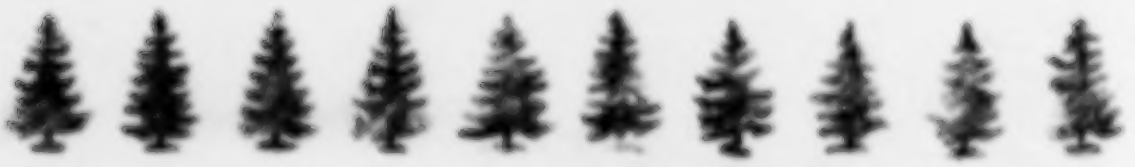
Collect 10 copecks from the coins of the cut-out chart.

Count from 1 to 10.

Count from 10 to 1.

ADDITION AND SUBTRACTION

To Add and Subtract 1



1. 1 + 1
2 + 1
3 + 1
4 + 1
5 + 1
6 + 1
7 + 1
8 + 1
9 + 1

1 2 3 4 5 6 7 8 9 10

2. Children brought 6 pots with flowers to decorate a class, and then another pot. How many pots in all did the children bring?

3. Lena brought to the class 9 yellow leaves and 1 green [leaf]. How many leaves in all did Lena bring?

4. 2 + 1
4 + 1
1 + 1
6 + 1
5 + 1
8 + 1
9 + 1
7 + 1
3 + 1

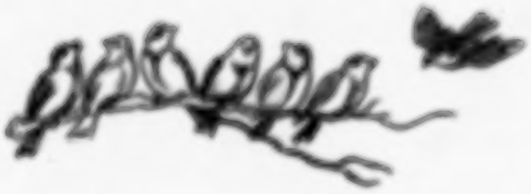
5. 2 - 1
3 - 1
4 - 1
5 - 1
6 - 1
7 - 1
8 - 1
9 - 1
10 - 1

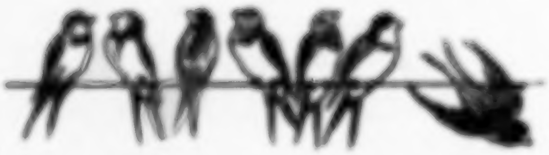
6. A week has 7 days. Children will not study one day a week. How many studying days are there in a week?

7. Natasha has 10 pots with flowers at home. She carried one pot to school. How many pots of flowers remained with Natasha?

8. 2 - 1
4 - 1
8 - 1
5 - 1
7 - 1
10 - 1
9 - 1
6 - 1.
3 - 1

9. 1 + 1 2 + 1 3 + 1
2 - 1 3 - 1 4 - 1
4 + 1 5 + 1 6 + 1
5 - 1 6 - 1 7 - 1
7 + 1 8 + 1 9 + 1
8 - 1 9 - 1 10 -1





10. **6 birds sat on a branch. Then another bird flew over. How many birds in all were then on the branch?**

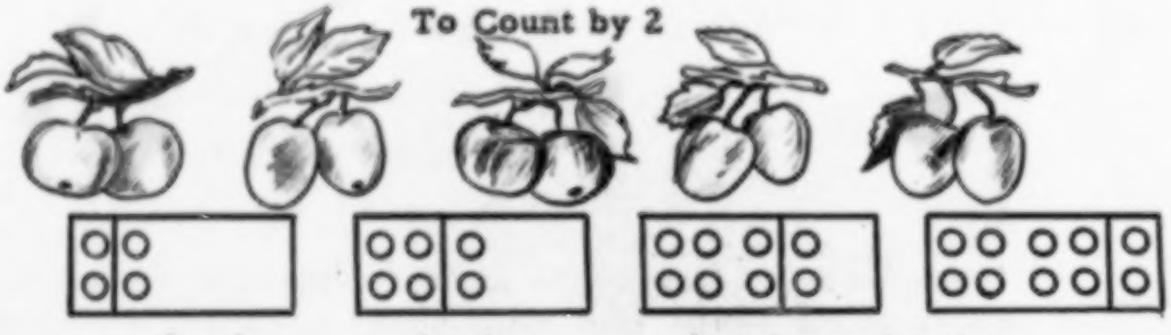
11. **7 swallows sat on a wire. One swallow flew away. How many swallows remained?**

12. 6 + 1 7 - 1 8 + 1 9 - 1
6 - 1 7 + 1 8 - 1 9 + 1

To Add and Subtract 2

13. 2 + 1 + 1 6 + 1 + 1
4 + 1 + 1 8 + 1 + 1

To Count by 2



2 + 2 =	4 + 2 =	6 + 2 =	8 + 2 =
2 +1 +1	4 + 1+1	6 + 1+1	8 +1 + 1

2 4 6 8 10

14. Mother brought from the garden 4 baskets of carrots and Tania brought 2 baskets. How many baskets of carrots did they bring in all?

15. Metia helped Mother to gather in potatoes from the garden. Mother gathered 8 sacks and Metia 2 sacks. How many sacks did Mother and Metia gather in all?

16.
4 + 2
2 + 2
6 + 2
8 + 2

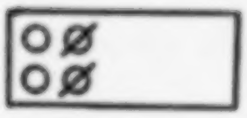
2 + 2
6 + 2
8 + 2
4 + 2

6 - 1
9 - 1
5 - 1
7 - 1

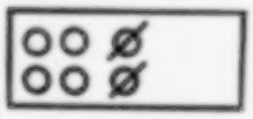
6 + 2
8 - 1
8 + 2
10 - 1

17.
4 - 1 - 1
6 - 1 - 1

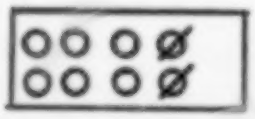
8 - 1 - 1
10 - 1 - 1



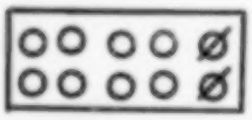
4 - 2 =
4-1-1



6 - 2 =
6 - 1 - 1



8 - 2 =
8 - 1 - 1



10 - 2 =
10 - 1 - 1

18. Vologida had 6 nails. He took 2 nails to repair a sleigh. How many nails does Vologida have left?

19. There were 10 boards in the barn. From two boards Father made his son a shelf for books. How many boards were left in the shed?

20.
2 + 2
4 + 2
6 + 2
8 + 2

10 - 2
8 - 2
6 - 2
4 - 2

2 + 2
4 - 2
6 + 2
8 - 2

4 + 2
6 - 2
8 + 2
10 - 2

21. There were 8 books on the shelf. Mother put two more books on the shelf. How many books are there are on the shelf now?

22. There are 8 books on the table. Metia took 2 books from the table. How many books remained on the table?

23.

6 + 2
4 + 2
2 + 2
8 + 2

4 - 2
8 - 2
10 - 2
6 - 2

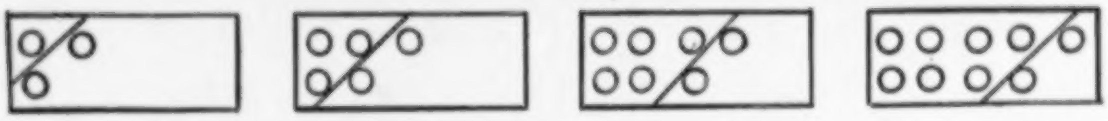
5 + 1
9 + 1
7 + 1
6 + 1

5 - 1
9 - 1
8 - 1
10 - 1

24.

1 + 1 + 1
3 + 1 + 1

5 + 1 + 1
7 + 1 + 1



1 + 2 = ____
1 + 1 + 1

3 + 2 = ____
3 + 1 + 1

5 + 2 = ____
5 + 1 + 1

7 + 2 = ____
7 + 1 + 1

1 3 5 7 9

25. **Lena brought 3 oak leaves and 2 maple leaves to class. How many leaves in all did Lena bring?**

26. **Mischa brought 5 pine cones and 2 fir cones from the forest. How many cones in all did Mischa bring?**

27.

1 + 2
3 + 2
5 + 2
7 + 2

4 - 1
3 - 1
6- 1
5 - 1

8 - 1
7 - 1
10- 1
9 - 1

5 + 2
8 - 1
7 + 2
10 - 1

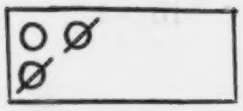
28.

3 - 1 - 1

5 - 1 - 1

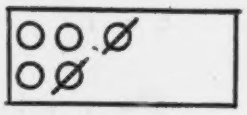
7 - 1 - 1

9 - 1 - 1



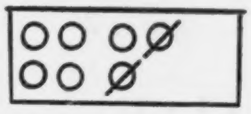
3 - 2 =

3 - 1 - 1



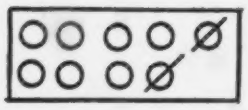
5 - 2 =

5- 1 - 1



7 - 2 =

7 - 1 - 1



9 - 2 =

9 - 1 - 1

29.

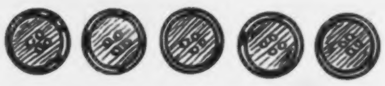
9 - 2
7 - 2
5 - 2
3 - 2

1 + 2
3 + 2
5 + 2
7 + 2

1 + 2
3 - 2
5 + 2
7 - 2

3 + 2
5 - 2
7 + 2
9 - 2

30. Mischa had



She sewed two buttons on the coat. How many buttons does Mischa have left?

31. Lena had 9 squares on the desk. She placed 2 squares in a box. How many squares remained on the desk?

32. Vania had 7 sheets of paper and he made a notebook from 2 sheets. How many sheets of paper has Vania left?

33.

1 + 2
3 + 2
5 + 2
7 + 2

9 - 2
7 - 2
5 - 2
3 - 2

5 + 2
5 - 2
7 + 2
7 - 2

3 - 2
7 - 2
5 - 2
9 - 2

34. From the cards of the cutout table, make up 4 examples dealing with the addition of two and solve them.

For example: 3 + 2 = 5

35. From the cards of the cutout table, make up 4 examples dealing with the subtraction of two and solve them.

36.
5 + 1
8 + 1
7 - 1
10 - 1

4 + 2
8 + 2
10 - 2
8 - 2

5 + 2
3 + 2
7 - 2
9 - 2

8 - 1
6 - 2
9 - 1
10 - 2

37. Ira found 7 white and 1 red stone at the river. How many stones in all did she find?

Ira had 8 stones, she gave her friend 2 stones, how many stones does Ira have left?

38.
9 + 1
7 + 1
9 - 1
6 - 1

8 + 2
6 + 2
6 - 2
10 - 2

3 + 2
7 + 2
7 - 2
9 - 2

10 - 1
8 - 2
5 - 2
9 - 1

To Add and Subtract 3

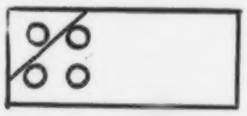
39. From what numbers can we make up 3?

40.
1 + 1 + 2
2 + 2 + 1

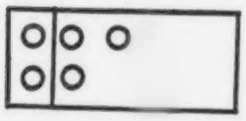
3 + 1 + 2
4 + 2 + 1

5 + 1 + 2
6 + 2 + 1

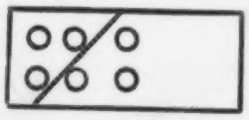
7 + 1 + 2
7 + 2 + 1



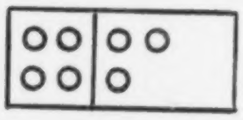
1 + 3 =
1 + 1 + 1 + 1
1 + 1 + 2



2 + 3 =
2 + 1 + 1 + 1
2 + 2 + 1



3 + 3 =
3 + 1 + 1 + 1
3 + 2 + 1



4 + 3 =
4 + 1 + 1 + 1
4 + 2 + 1

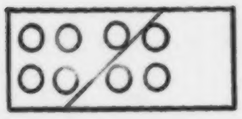
41. They dug one hole to plant trees and then another 3 holes. How many holes in all did they dig?

42. 1 + 3
2 + 3
3 + 3

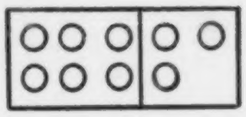
4 + 3
3 + 3
2 + 3

2 + 3
1 + 3
4 + 3

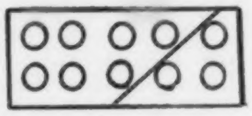
1 + 3
4 + 3
3 + 3



5 + 3 =
5 + 1 + 1 + 1
5 + 2 + 1

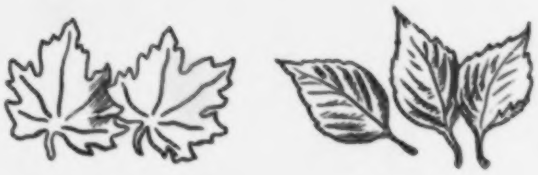


6 + 3 =
6 + 1 + 1 + 1
6 + 2 + 1



7 + 3 =
7 + 1 + 1 + 1
7 + 2 + 1

43. Serjeia dried 2 maple and 3 birch leaves, how many leaves in all did she dry?



44. On the way to school, Luba saw in a garden 4 large apples, and 4 small apples. How many apples in all did Luba see ?

45. 3 + 2
3 + 3
2 + 2
2 + 3

4 + 2
4 + 3
6 + 2
6 + 3

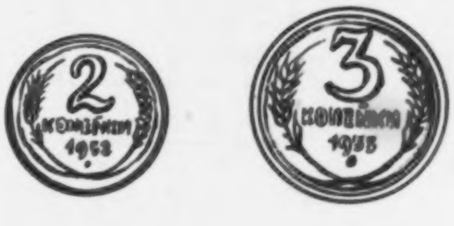
5 + 2
5 + 3
7 + 2
7 + 3

5 + 3
4 + 3
7 + 3
6 + 3

46. From the cards of the cutout table make up 4 examples dealing with the addition of 3 and solve them.

47.

Vasia had



How many kropeks in all did Vasia have?

48. For the holidays Mother bought Mazia an album for 5 rubles, and a book for 3 rubles. How much money did Mother pay for this present?

49. Make a problem in which it is necessary to add 3 rubles to one ruble.

50.
3 + 1
1 + 3
3 + 3
2 + 3
4 + 3
6 + 3
5 + 3
7 + 3
9 + 1
8 - 1
7 - 1
9 - 1
8 + 2
6 - 2
7 - 2
9 - 2

51.
1 + 3
4 + 3
3 + 3
2 + 3
5 + 3
7 + 3
4 + 3
6 + 3
6 - 1
9 - 1
7 - 1
10 - 1
8 - 2
5 - 2
9 - 2
7 - 2

52. Place 3 sticks to the left and as many sticks to the right. How many sticks in all will this be?

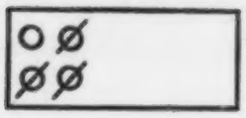
53. They bought for kindergarten 3 watering pots to start with and then again as many. How many watering pots in all were bought?

54. To start with 2 hammers were brought for the school, and then again as many. How many hammers in all were brought?

55.
4 + 3
6 + 3
5 + 3
7 + 3
5 - 1
8 - 1
4 - 1
9 - 1
6 - 2
8 - 2
7 - 2
10 - 2
9 -2
7 - 1
10 - 2
8 - 1

56.
4 - 2 - 1
5 - 1 - 2
6 - 2-1
7 - 1-2
8 - 2 - 1
9 - 1 - 2
10 - 2 - 1
10 - 1 - 2

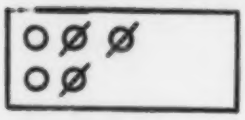
57. Put 4 circles on the desk. Take 3 circles and place them in a box. How many circles remained on the desk?



4 - 3 =

4 - 1 - 1 - 1

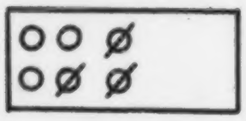
4 - 2 - 1



5 - 3 =

5 - 1 - 1 - 1

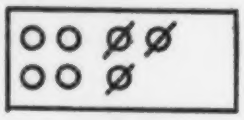
5 - 2 - 1



6 - 3 =

6 - 1 - 1 - 1

6 - 2 - 1



7 - 3 =

7 - 1 - 1 - 1

7 - 2 - 1

58\.
1 + 3
4 - 3

2 + 3
5 - 3

3 + 3
6 - 3

4 + 3
7 - 3

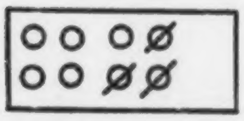
59. **Volia had to wash 7 plates. She already washed 3 plates. How many plates remained for her to wash?**

60\.
1 + 3
2 + 3
3 + 3
4 + 3

7 - 3
6 - 3
5 - 3
4 - 3

3 + 3
6 - 3
2 + 3
5 - 3

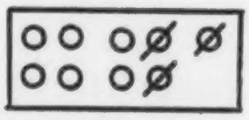
1 + 3
4 - 3
4 + 3
7 - 3



8 - 3 =

8 - 1 - 1 - 1

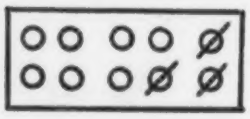
8 - 2 - 1



9 - 3 =

9 - 1 - 1 - 1

9 - 2 - 1



10 - 3 =

10 - 1 - 1 - 1

10 - 2 - 1

61\.
5 + 3
8 - 3

6 + 3
9 - 3

7 + 3
10 - 3

62\.
1 + 3
4 - 3
2 + 3
5 - 3

3 + 3
6 - 3
4 + 3
7 - 3

5 + 3
8 - 3
6 + 3
9 - 3

7 + 3
10 - 3
4 + 3
7 - 3

63. Vania must draw 6 mushrooms. He already drew 3 mushrooms. How many mushrooms are there left for him to draw?

64. A carpenter had to make 4 legs for the table. He already made 3 legs. How many legs are left for him to make?

65. Make up a problem in which it is necessary to take 3 from 5.

66.

3 + 3	5 + 3	9 - 3	5 - 3
6 - 3	8 - 3	7 - 3	8 - 3
1 + 3	7 + 3	10 - 3	7 + 3
4 - 3	10 - 3	8 - 3	7 - 3

67. Make up from the cards of the cutout table four examples dealing with the subtraction of 3 and solve them.

68.

2 + 3	4 + 3	4 - 3	7 - 3
5 - 3	7 - 3	8 - 3	7 + 3
3 + 3	7 + 3	6 + 3	9 - 3
6 - 3	10 - 3	9 - 3	10 - 3

69. 6 boys played in the yard. Two boys came over. How many boys remained in the yard?

4 boys were in the yard. Then 3 more boys came over. How many boys in all were there in the yard?

70.

1 + 3	6 + 3	8 - 3	7 + 3
4 - 3	9 - 3	10 - 3	7 - 3
5 + 3	7 + 3	9 - 3	5 + 3
8 - 3	10 - 3	7 - 3	8 - 3

71.

7 + 1	6 + 2	5 - 2	4 + 3
6 - 1	8 + 2	8 - 2	7 - 1
8 - 1	5 + 2	9 - 2	6 + 3
10 - 1	7 + 2	7 - 2	9 + 1

To Add and Subtract 4

72. From what numbers can one make up 4?

73. 1 + 2 + 2

2 + 2 + 2

2 + 1 + 3

3 + 2 + 2

3 + 3 + 1

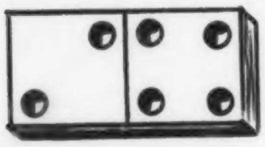
4 + 2 + 2

5 + 2 + 2

5 + 1 + 3

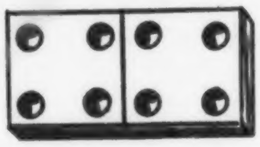
6 + 2 + 2

74. Place 2 circles to the left and 4 circles to the right. How many circles are here in all?



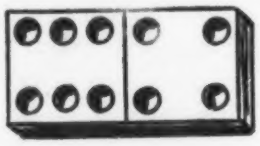
2 + 4 =

2 + 2 + 2



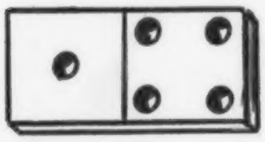
4 + 4 =

4 + 2 + 2



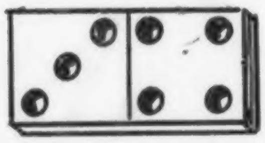
6 + 4 =

6 + 2 + 2



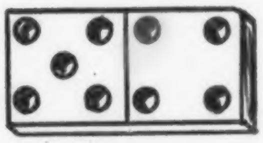
1 + 4 =

1 + 2 + 2



3 + 4 =

3 + 2 + 2



5 + 4 =

5 + 2 + 2

75. The brother helped his sister to make sticks for counting. The brother made 4 sticks and the sister 4. How many sticks in all did they make?

76. Vitia cut out 3 black circles and 4 green circles from the cloth and made from them a pen cleaner. How many circles in all were used for the pen cleaner?

77. Make up a problem in which it is necessary to add four to 5.

78. 4 + 4

2 + 4

6 + 4

1 + 4

5 + 4

3 + 4

2 + 4

6 + 4

4 + 1

1 + 4

4 + 2

2 + 4

4 + 3

3 + 4

6 + 4

5 + 4

79. Make up from the cards of the cutout table four examples of addition of 4 and solve them.

80.
2 + 4
4 + 4
6 + 4
1 + 4

3 + 4
5 + 4
6 + 4
4 + 4

8 - 2
5 - 2
9 - 2
7 - 2

5 + 4
10 - 2
6 - 2
3 + 4

81. Four birches grew in the clearing. In the autumn they planted as many birches. How many birches in all are there in the clearing now?

82. Four apple trees grew in the garden. In the autumn they planted as many apple trees. How many apples trees are there in the garden now?

83.
1 + 4
3 + 4
6 + 4
5 + 4

5 - 1
8 - 1
7 - 1
10 - 1

10 - 2
8 - 2
9 - 2
7- 2

6 - 3
8 - 3
7 - 3
10 - 3

84.
2 + 4
4 + 4
3 + 4
6 + 4

6 - 1
4 - 1
9 - 1
7 - 1

8 - 2
6 - 2
7 - 2
5 - 2

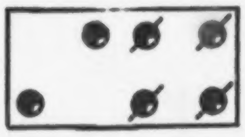
4 - 3
9 - 3
5 - 3
8 - 3

85.
5 - 2 - 2
5 - 1 - 3
6 - 2 - 2

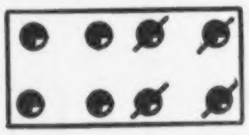
7 - 2 - 2
7 - 1 - 3
8 - 2 - 2

9 - 2 - 2
9 - 1 - 3
10 - 2 - 2

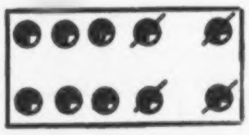
86. Place 6 sticks on the desk. Take 4 sticks and put them in a box. How many sticks remained on the desk?



6 - 4 =
6 - 2 - 2



8 - 4 =
8 - 2 - 2



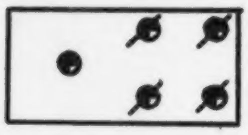
10 - 4 =
10 - 2 - 2

87.

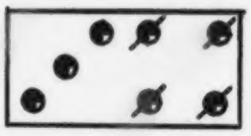
2 + 4
6 - 4

4 + 4
8 - 4

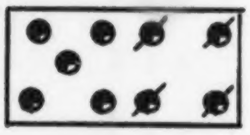
6 + 4
10 - 4



5 - 4=
5 - 2 - 2



7 - 4 =
7 - 2 - 2



9 - 4 =
9 - 2 - 2

88.

1 + 4
5 - 4

3 + 4
7 - 4

5 + 4
9 - 4

89. Sema was setting the table for breakfast. There were 6 glasses on the shelf. Sema took 4 glasses. How many glasses were left on the shelf?

90. There were 7 plates on the shelf. Sema took 4 plates. Make up a question and solve the problem.

91. Make up a problem in which it is necessary to take away 4 from 10.

92.

2 + 4
6 - 4
4 + 4
8 - 4

6 + 4
10 - 4
1 + 4
5 - 4

3 + 4
7 - 4
5 + 4
9 - 4

6 - 4
6 + 4
9 - 4
7 - 4

93. Make up from the cards of the cutout table four examples of subtracting of 4 and solve them.

94.

4 + 4
6 + 4
3 + 4
5 + 4

6 - 4
8 - 4
5 - 4
10 - 4

7 - 4
9 - 4
10 - 4
8 - 4

6 + 4
8 - 4
5 - 4
7 - 4

95.

4	2	6
1	5	3

+ 4

6	10	8
5	9	7

- 4

96. Natasha drew at first 6 Christmas trees, and then another 4 Christmas trees. How many Christmas trees in all did she draw?

Natasha drew 10 Christmas trees. She colored 2 Christmas trees. How many Christmas trees remained for her to color?

97.
2 + 4
4 + 4
3 + 4
6 + 4
8 - 4
6 - 4
7 - 4
10 - 4
7 - 3
7 - 4
10 - 3
10 - 4
3 + 4
9 - 3
5 + 4
7 - 2

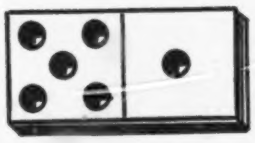
98.
5 + 4
7 - 4
10 - 4
6 - 4
6 + 2
3 + 2
7 + 2
5 + 2
4 + 3
7 + 3
5 + 3
6 + 3
5 + 3
8 + 2
5 + 4
9 + 1

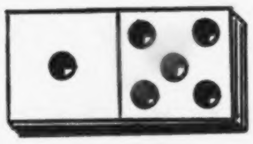
To Add and Subtract 5

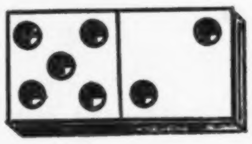
99. From what numbers can you make up 5?

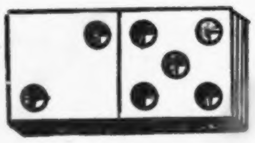
100. Place 5 circles to the left and 1 circle to the right. How many circles are there altogether?

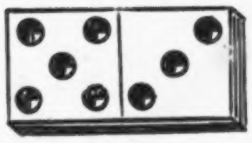
Place 1 circles to the left and 5 circles to the right. How many circles are there altogether?

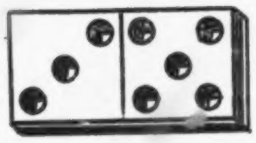

5 + 1

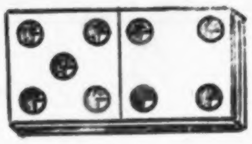

1 + 5

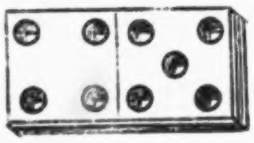

5 + 2

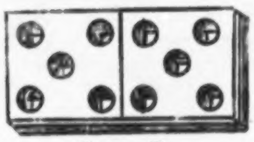

2 + 5


5 + 3


3 + 5


5 + 4


4 + 5


5 + 5

1 + 5 = ______
1 + 2 + 3

2 + 5 = ______
2 + 3 + 2

3 + 5 = ______
3 + 3 + 2

4 + 5 = ______
4 + 2 + 3

5 + 5 = ______
5 + 2 + 3

101. One large flag and 5 smaller flags were displayed on the school building for the holidays. How many flags altogether were displayed on the school buildings.

102. Five pictures were hung on one wall and as many on another wall of the school hall. Make up a question and solve the problem.

103. Make up a problem in which one must add 5 to 3.

104.
5 + 1
1 + 5
5 + 2
2 + 5

5 + 3
3 + 5
5 + 4
4 + 5

1 + 5
3 + 5
5 + 5
2 + 5

2 + 4
2 + 5
5 + 4
5 + 5

105. From the cards of the cutout table make up four examples dealing with addition of 5 and solve them.

106.
5 + 5
2 + 5
4 + 5
3 + 5

5 - 2
8 - 2
7 - 2
9 - 2

5 - 3
7 - 3
9 - 3
8 - 3

6 - 4
8 - 4
7 - 4
9 - 4

107. Place 1 circle and 5 circles in the empty box. How many circles in all are there in the box?
... Remove from the box 5 circles. How many circles remained in the box?

108.
1 + 5
6 - 5

2 + 5
7 - 5

3 + 5
8 - 5

4 + 5
9 -5

5 + 5
10 - 5

6 - 5 = ______
6 - 3 - 2

7 - 5 = ______
7 - 2 - 3

8 - 5 = ______
8 - 2-3

9 - 5 = ______
9 - 3 - 2

109. The monitors had to water 8 pots with flowers. They already watered 5 pots. How many pots with flowers are there left for them to water?

110. Peter had 7 boards. 5 boards were used to repair a sleigh. Make up a question and solve the problem?

111. Make up a problem in which one must subtract 5 from 10.

112.	5 + 1	5 + 2	5 + 3	5 + 4
	1 + 5	2 + 5	3 + 5	4 + 5
	6 - 1	7 - 2	8 - 3	9 - 4
	6 - 5	7 - 5	8 -5	9 - 5

113.	2 + 5	6 - 5	9 - 5	8 - 5
	4 + 5	8 - 5	6 - 5	6 - 5
	3 + 5	10 - 5	8 - 5	7 - 5
	5 + 5	7 - 5	10 - 5	9 - 5

114. Kolia made 4 flags for the holidays and Manya made 5. How many flags altogether did they make?

115. Kolia must make 8 flags. She made 4 flags. How many flags are there left for him to make?

116. Manya must make 10 flags. She made 5 flags. Make up a question and solve the problem.

117.	2 + 5	6 - 5	8 + 1	5 + 2
	4 + 5	8 - 5	6 - 1	8 - 2
	1 + 5	10 - 5	9 - 1	10 - 2
	5 + 5	7 - 5	10 -1	9 - 2

118. Make up from the cards of the cutout table four examples of the subtraction of five and solve them.

119.
3 + 3
5 + 3
7 + 3
6 + 3

4 - 3
7 - 3
9 - 3
10 - 3

4 + 4
1 + 4
3 + 4
5 + 4

6 - 4
7 - 4
10 - 4
9 - 4

120.
2 + 5
5 + 5
1 + 5
4 + 5

8 - 5
6 - 5
10 - 5
9 - 5

10 - 3
8 - 4
7 - 5
8 - 3

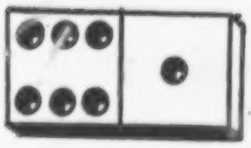
5 - 4
6 - 3
3 + 5
6 + 4

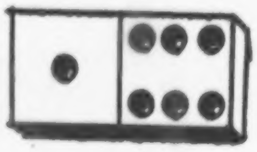
To Add and Subtract 6

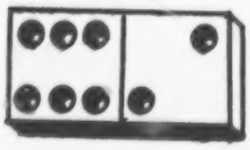
121. From what numbers can one make up 6?

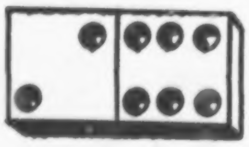
122. Place 6 squares to the left and 1 to the right. How many squares are there all together?

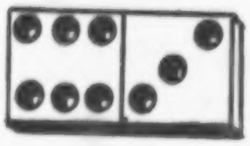
Place 1 square to the left and 6 to the right. How many squares are there all together?

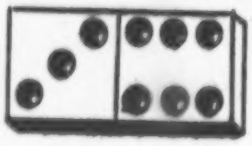

6 + 1

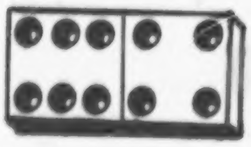

1 + 6

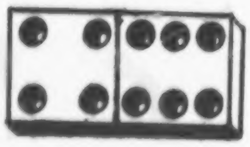

6 + 2


2 + 6


6 + 3


3 + 6


6 + 4


4 + 6

1 + 6 =
1 + 3 + 3

2 + 6 =
2 + 2 + 4

3 + 6 =
3 + 3 + 3

4 + 6 =
4 + 4 + 2

123. Children were playing hide and seek. One was It and 6 were hiding. How many children were playing all together.

124. Children were playing in the yard. Two girsl were holding a rope and 6 girls were jumping over it. How many girls all together were playing in the yard?

125. Make up problems in which it is necessary to subtract 4 from 6.

126.

6 + 2
2 + 6
6 + 1
1 + 6

6 + 3
3 + 6
6 + 4
4 + 6

1 + 6
3 + 6
4 + 6
2 + 6

2 + 5
2 + 6
4 + 5
4 + 6

127. Make up from the cards of the cutout table three examples for the addition of six and solve them.

128.

2 + 6
4 + 6
1 + 6
3 + 6

7 - 3
5 - 3
8 - 3
10 - 3

8 - 4
5 - 4
7 - 4
10 - 4

6 - 5
7 - 5
8 - 5
9- 5

129. A squirrel in a cage had one nut. Kolia placed in the cage six more nuts. How many nuts all together did the squirrel have?

130.

1 + 6
7 - 6

2 + 6
8 - 6

3 + 6
9 - 6

4 +6
10 - 6

$\underline{7- 6 =}$
$7 - 4 - 2$

$\underline{8 - 6 =}$
$8 - 4 - 2$

$\underline{9- 6 =}$
$9 - 3 - 3$

$\underline{10 - 6 =}$
$10 - 2 - 4$

131. Lubya had to wash 8 handkerchiefs. She washed 6 handkerchiefs. How many did she have left for her to wash?

132. Duba had to cut out 10 squares. He cut out 6 squares. Make up a question and solve the problem.

133. Make up a problem in which it is necessary to subtract 6 from 9.

134.	6 + 1	6 + 2	6 + 3	6 + 4
	1 + 6	2 + 6	3 + 6	4 + 6
	7 - 1	8 - 3	9 - 3	10 - 4
	7 - 6	8 - 6	9 - 6	10 - 6

135.	2 + 5	7 - 6	8 + 1	6 + 2
	4 + 6	9 - 6	7 - 1	9 - 2
	1 + 6	8 - 6	10 - 1	7 - 2
	3 + 6	10 - 6	9 - 1	10 - 2

136. One boy caught 3 fish and another boy caught 6. How many fish did they catch altogether?

The boys caught 9 fish, they made a chowder from 5 fish. How many fish did they have left? [Chowder = fish soup]

137. Make up a problem in which it is necessary to add 6 to 2.

Make up a problem in which it is necessary to subtract 6 from 9.

138.	6 + 3	3 + 4	3 + 5	4 + 6
	7 - 3	8 - 4	7 - 5	7 - 6
	9 - 3	7 - 4	10 - 5	9 - 6
	10 - 3	10 - 4	9 - 5	8 - 6

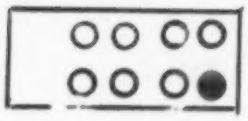
139. Make up from the cards in the cutout table two examples of subtraction of six.

140.	8 - 1	8 - 3	9 - 6	9 - 4
	5 + 2	7 - 4	7 - 5	7 - 6
	6 - 3	9 - 2	8 - 6	3 + 5
	8 - 4	5 + 5	6 + 4	9 - 6

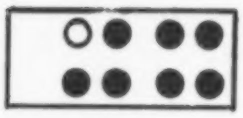
To Add and Subtract 7

141. From what numbers can one make up 7?

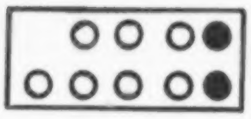
142. To 7 sticks, one must add one stick. How many sticks will that make. To one stick it is necessary to add 7, now how many will there be?



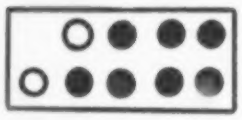
7 + 1



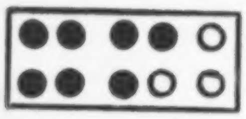
1 + 7



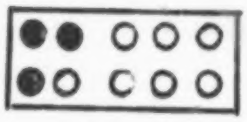
7 + 2



2 + 7



7 + 3



3 + 7

2 + 7 =
2 + 6 + 1
2 + 5 + 2

3 + 7 =
3 + 3 + 4
3 + 2 + 5

143.

7 + 2	7 + 3	1 + 6	3 + 6
2 + 7	3 + 7	1 + 7	3 + 7
7 + 1	1 + 7	2 + 6	2 + 5
1 + 7	2 + 7	2 + 7	2 + 7

144. The children were playing school. One girl was the teacher and 7 girls were the pupils. How many children altogether were playing school?

145. Make up a problem in which it is necessary to add 7 to 3.

146.

2 + 7	2 + 4	2 + 5	3 + 6
1 + 7	8 - 4	8 - 5	7 - 6
3 + 7	10 - 4	10 - 5	9 - 6
7 + 3	9 - 4	9 - 5	10 - 6

147. 7 friends came to visit a boy on his birthday. How many boys were there altogether?

In the room there were 8 boys. Then 7 boys went home. How many boys remained?

148. 1 + 7

8 - 7

2 + 7

9 - 7

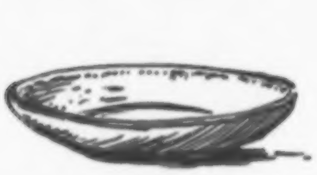
3 + 7

10 - 7

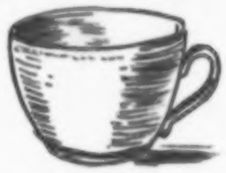
8 - 7 =
8 - 4 - 3

9 - 7 =
9 - 3 - 4

10 - 7 =
10 - 5 - 2



3 rub.



7 rub.

149. Make up a problem using the above picture [meaning the weights of the plate and the cup]

150. A girl bought a saucer for 3 rubles. She gave 5 rubles to the cashier, how much money did she receive in change?

151. Momma bought a cup for 7 rubles. She gave the cashier 10 rubles. Make up a question and solve the problem.

152. 7 + 1

1 + 7

8 - 1

8 - 7

7 + 2

2 + 7

9 - 2

9 - 7

7 + 3

3 + 7

10 - 3

10 - 7

9 - 7

8 - 7

2 + 7

10 - 7

153. From the cards of the cutout table, make up three examples on the addition of 7 and the subtraction of 7.

154. 2 + 7

8 - 7

10 - 7

9 - 7

3 + 4

8 - 4

9 - 4

10 - 4

3 + 5

6 - 5

10 - 5

8 - 5

4 + 6

8 - 6

10 - 6

7 - 6

To Add and Subtract 8

155. From what numbers can one make up 8?

156. Put 8 circles on the left and one on the right. How many circles are there all together. Place one circle to the left and 8 circles to the right, how many circles are there all together.

8 + 1
9 - 1

1 + 8
9 - 8

8 + 2
10 - 2

2 + 8
10 - 8

157. Magda cut out 2 stars and Vashya cut out 8 stars. How many stars did they cut out altogether?

158. Magda must cut out 10 stars. She cut out 8 stars. How many stars are there left for her to cut out?

159. Magda must cut out 9 stars. He cut out 8 stars. Make up a question and solve the problem.

160.

8 + 1
1 + 8
8 + 2
2 + 8

1 + 8
9 - 8
2 + 8
10 - 8

8 + 1
1 + 8
9 - 1
9 - 8

8 + 2
2 + 8
10 - 2
10 - 8

161. From the cards of the cutout table, make up two examples of addition of 8 and subtraction of 8.

162.

1 + 8
10 - 8
2 + 8
9 - 8

5 + 2
9 - 2
6 + 3
10 - 3

3 + 4
9 - 4
2 + 5
8 - 5

3 + 6
10 - 6
2 + 7
8 - 7

To Add and Subtract 9

9 + 1
10 - 1

1 + 9
10 - 9

163. The girls were playing a round dance. One girl was in the center and 9 girls were in the circle. How many girls were there all together?

164.
9 + 1
1 + 9
10 - 1
10 - 9

7 + 1
10 - 1
5 + 2
9 - 2

6 + 3
7 - 3
5 + 4
10 - 4

10 - 9
8 - 3
7 - 2
9 - 4

165. Sonya had 9 pieces of material. Momma gave her as many. How many pieces of material did Sonya have altogether?

Sonya had 10 pieces of material. From 9 pieces she made a blanket for the doll. Make up a question and solve the problem.

166.
9 + 1
10 - 1
1 + 9
10 - 9

3 + 5
7 - 5
2 + 6
9 - 6

1 + 7
10 - 7
2 + 8
9 - 8

1 + 9
9 - 7
10 - 6
10 - 8

167:
9 - 3
10 - 5
7 + 2
9- 8

7 + 3
5 - 4
3 + 6
10 - 3

8 - 5
6 - 4
4 + 5
9 - 7

10 - 8
2 + 7
10 - 9
6 + 4

Table of Addition

1 + 1 = 2
2 + 1 = 3
3 + 1 = 4
4 + 1 = 5
5 + 1 = 6
6 + 1 = 7
7 + 1 = 8
8 + 1 = 9
9 + 1 = 10

1 + 2 = 3
2 + 2 = 4
3 + 2 = 5
4 + 2 = 6
5 + 2 = 7
6 + 2 = 8
7 + 2 = 9
8 + 2 = 10

1 + 3 = 4
2 + 3 = 5
3 + 3 = 6
4 + 3 = 7
5 + 3 = 8
6 + 3 = 9
7 + 3 = 10

1 + 4 = 5
2 + 4 = 6
3 + 4 = 7
4 + 4 = 8
5 + 4 = 9
6 + 4 = 10

1 + 5 = 6
2 + 5 = 7
3 + 5 = 8
4 + 5 = 9
5 + 5 = 10

1 + 6 = 7
2 + 6 = 8
3 + 6 = 9
4 + 6 = 10

1 + 7 = 8
2 + 7 = 9
3 + 7 = 10

1 + 8 = 9
2 + 8 = 10

1 + 9 = 10

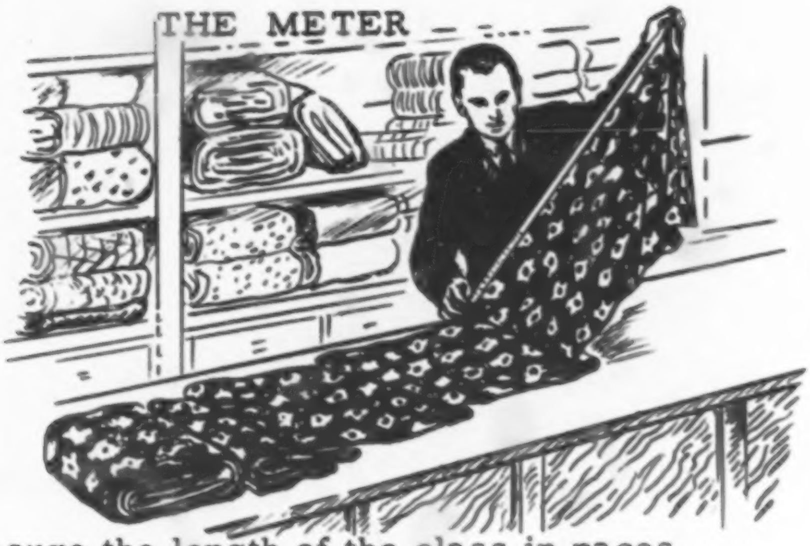
Example of subtraction when there is zero in the remainder.

2 - 2 = 0

168. 3 - 3   5 - 5   8 - 8   9 - 9
6 - 6   7 - 7   4 - 4   2 - 2

169. 4 + 4 - 8   4 + 6 - 8   1 + 7 - 8
2 + 6 - 7   1 + 8 - 9   3 + 6 - 4
3 + 7 - 10   4 + 5 - 6   2 + 8 - 6
2 + 5 - 5   1 + 6 - 7   3 + 7 - 10

170. 3 + 7 - 6   6 - 3 - 3   7 - 2 - 4
5 + 2 - 7   8 - 4 - 4   9 - 6 - 3
1 + 8 - 8   10 - 5 - 5   10 - 3 - 5



171. Measure the length of the class in paces.

Measure the length of the class using the meter.

Measure the width of the classroom with paces and then with the meter.

172. Measure the length of the tape with the meter.

Measure the length of the shoelace with the meter.

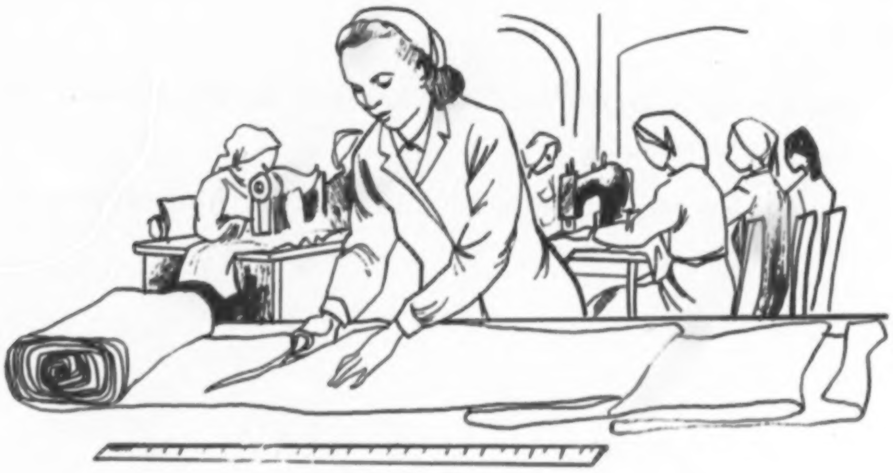
173. Prepare a meter from heavy paper of from a tape.

Measure the length and the width of a room in your house.

174. Measure a thread three meters long. Then cut off from it one meter. How many meters of thread are there left?

175. Measure the thread five meters long. Cut off from it 2 meters. What is the length of the thread that is left?

The word "meter" is written in abbreviated form as M



176. Three meters of material were used for a shirt and 4 meters for a dress. How many meters of material were used for a shirt and a dress altogether?

A seamstress had 9 meters of material. 7 meters were used for a shirt and a dress. How many meters of material did the seamstress have left?

177. A carpenter sawed off 3 meters from a board, and then another 2 meters. Complete the question and solve the problem.

A carpenter cut a board 6 meters long, he sawed off from it, 5 meters to fix the floor. What length of the board did he have left?

REVIEW

178. $2 + 2 + 2$

$5 + 1 + 2$

$4 + 2 + 1$

$6 + 2 + 2$

$5 + 1 - 2$

$8 + 2 - 1$

$5 - 2 - 2$

$9 - 1 - 2$

$1 + 2 + 3$

$4 + 3 + 2$

$6 - 3 - 1$

$10 - 2 - 3$

179. Senia cut out 5 Christmas wreaths from green paper and 2 from white paper. How many Christmas wreaths did he cut out altogether.

Senia cut out 7 Christmas trees, 3 trees he presented to his sister. How many Christmas trees did Senia have left?

180. Make up a problem in which it is necessary to add three to six.

181. Make up a problem in which it is necessary to subtract three from ten.

182.
6 + 1 + 2
5 + 2 + 1
5 - 2 - 2
9 - 2 - 2

3 + 3 + 3
1 + 3 + 3
2 + 3 + 3
2 + 2 + 3

6 - 3 - 3
7 - 3 - 3
8 - 3 - 3
10 - 3 - 3

183.
$\left.\begin{array}{r}4\\6\\3\\5\end{array}\right| + 4$ $\left.\begin{array}{r}6\\9\\7\\10\end{array}\right| - 4$ $\left.\begin{array}{r}3\\5\\2\\4\end{array}\right| + 5$ $\left.\begin{array}{r}10\\8\\7\\9\end{array}\right| - 5$

184.
2 + 2 + 4
3 + 3 + 4
7 - 4 - 1
10 - 4 - 2

2 + 5 + 1
4 + 5 + 1
8 - 5 + 5
10 - 5 - 2

3 + 4 - 5
10 - 2 - 5
9 - 5 + 4
7 + 3 - 5

185. Svetlana bought a ribbon 6 meters long. She took 4 meters for decoration of the portraits. How many meters of ribbon did she have left?

Svetlana had a ribbon 2 meters long and she bought another 5 meters. How many meters of ribbon did Svetlana have altogether?

186. Make up a problem in which it is necessary to add 4 meters to 5 meters?

187. Make up a problem in which it is necessary to subtract 5 meters from 10 meters.

188.
1 + 4 + 4
3 + 4 + 3
8 - 4 - 4
10 - 3 - 4

1 + 5 + 4
3 + 5 + 2
6 - 3 - 3
9 - 5 - 3

6 - 5 + 4
10 - 5 - 5
9 - 4 - 4
8 - 5 + 5

189.

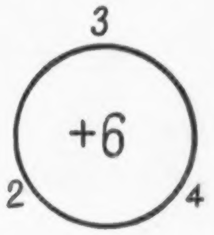
1 + 6
3 + 6
2 + 6
4 + 6

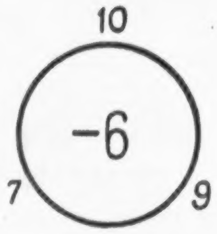
8 - 6
10 - 6
7 - 6
9 - 6

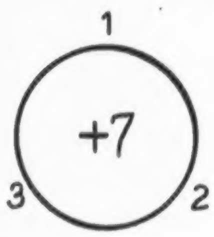
3 + 7
2 + 7
2 + 8
1 + 9

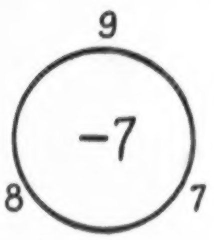
10 - 8
8 - 7
10 - 9
10 - 7

190.









191. Lena had black and colored pencils. She had 2 black pencils and ...... colored. How many pencils did Lena have altogether. Complete and solve the problem.

192. Vashia bought a book and an album. The album cost 6 rubles and the book ...... rubles. Complete and solve the problem. How much did the book and the album cost together?

193. Father bought his son a pail and a shovel. How much money did he pay for the purchase? Complete and solve this problem.

194.

2 + 6 - 4
4 + 6 - 5
9 - 6 + 6
7 - 6 + 4

1 + 7 - 6
3 + 7 - 8
9 - 8 + 7
9 - 7 + 6

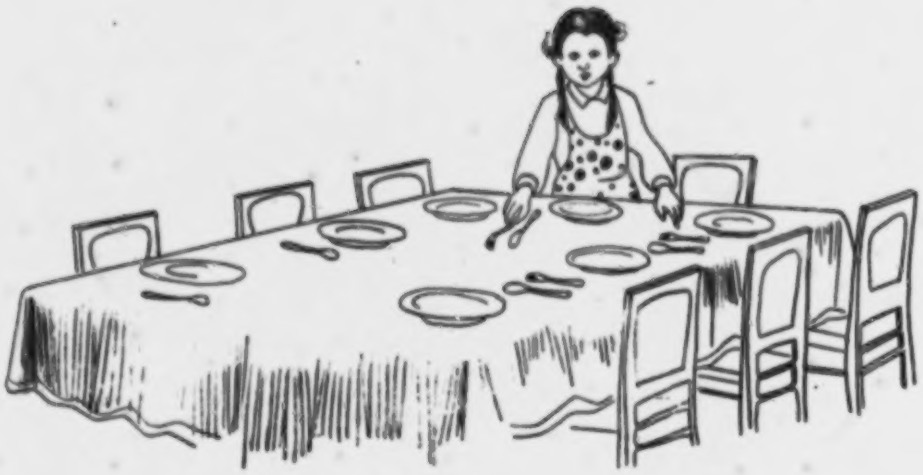
1 + 9 -8
10 - 9 + 7
9 - 6 + 5
10 - 7 - 3

195.

9 - 6 + 5
8 - 6 + 7
10 - 6 + 3
7 - 6 + 9

8 - 7 + 6
10 - 7 + 7
9 - 7 + 5
10 - 8 + 6

10 - 9 + 7
9 - 8 + 8
10 - 3 - 5
9 - 4 -2



196. 7 people have to eat dinner. Nina placed on the table 5 spoons and 3 forks. How many more spoons must she bring? How many more forks must she bring?

197. Put down 3 sticks. How many mor sticks must one add in order to have 4 sticks?

How many sticks should one add to 4 sticks to have 6 sticks?

198. 2 + ... = 3

4 + ... = 6

7 + ... = 8

1 + ... = 4

... + 2 = 6

... + 3 = 7

... + 5 = 10

... + 4 = 9

3 + ... = 8

7 + ... =10

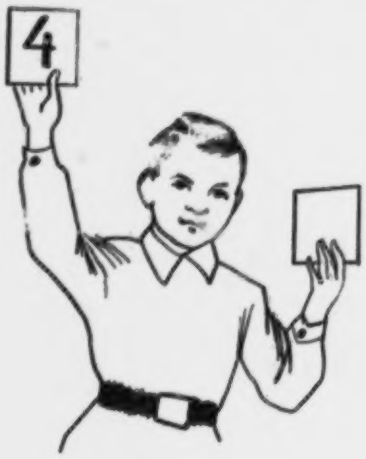
... + 2 = 7

... + 8 = 9

199. A Game in Guessing Numbers.

A pupil added a number to 4. This number is written on another card. He obtained 6. What is the number written on the other card.

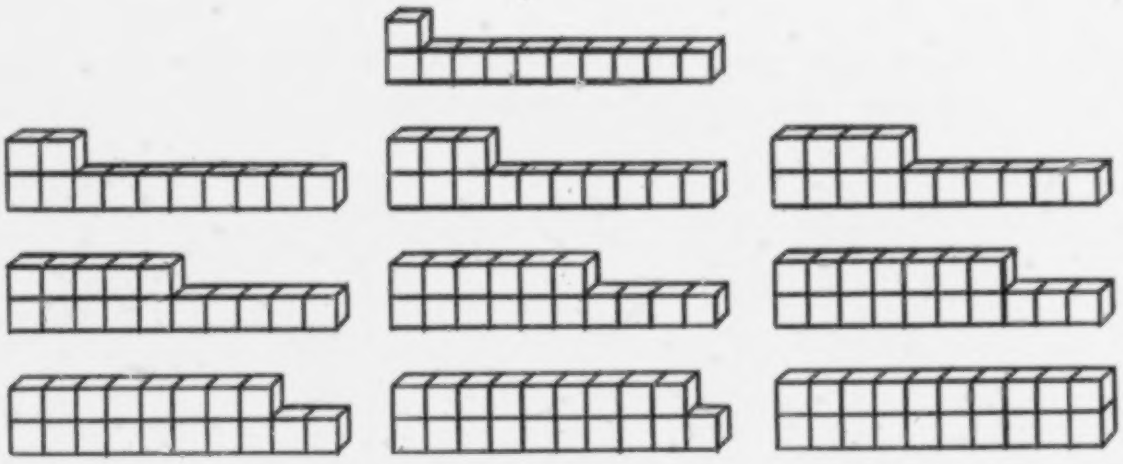
Carry out such a game.



THE SECOND TEN

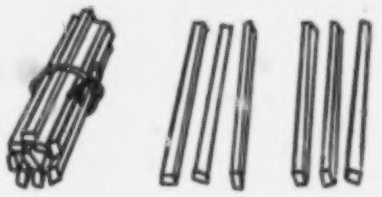
The Counting and Writing of Numbers

I.



200. Put down 1 stick on 10 sticks. How many sticks will there be?

Put down 3 sticks on 10 sticks? How many sticks will there be?



201. Put down as many sticks as there are drawn in the picture. How many 10's and ones are there?

202. 1] Put down 4 sticks

2] Put down 14 sticks

How many tens and ones are there in this number?

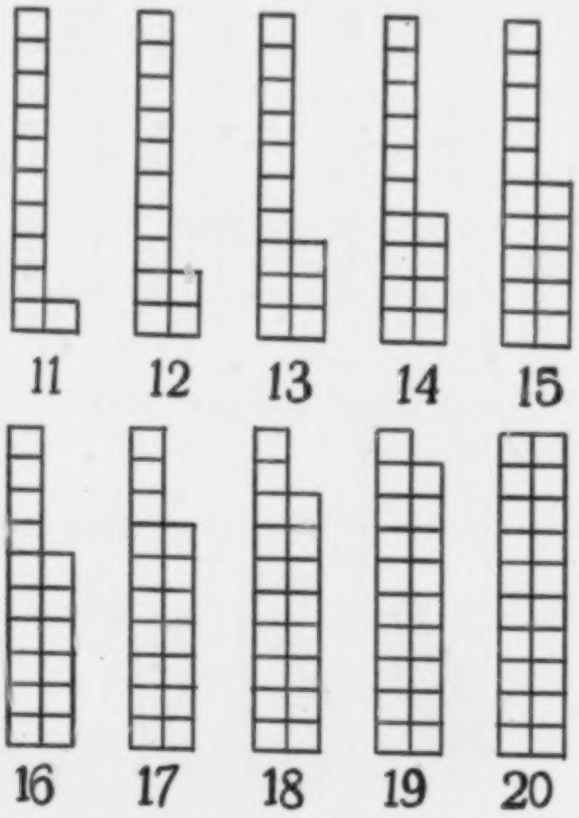
203. How many tens and ones in fifteen? eighteen ? nineteen?

How many tens are there in the number twenty?

204. Name the number which is made of:

1 ten and 5 ones;
1 ten and 9 ones;
2 tens.

205. Count how many squares there are in each pair of columns and read the numbers under them.



206. How many tens and ones are there in the numbers:

11? 13? 16? 18? 19?

Tens	Ones

207. Put down on the left side of the table a card with number 1 and on the right side a card with number 4. What number will there be?

Put down on the left side a card with number 1 and on the right side a card with number 9. What number will there be?

208. Read the numbers: 13, 15, 16, 19, 20.

209. Write the numbers:

1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

210. Tell in order which numbers are missing:

11		13		15			18		20

211. What page follows page 11? Page 16? Page 18?

212.
7 + 1
6 - 1
10 - 1
8 - 1

7 + 2
8 - 2
7 - 2
10 - 2

6 + 2 - 1
5 + 2 - 1
7 + 2 + 1
10 - 2 - 2

8 - 2 - 2
8 - 2 - 1
7 - 2 - 2
10 - 1 - 2

213. Make up a problem in which it is necessary to add 2 to 10.

214.
5 + 3
6 - 3
9 - 3
7 - 3

6 + 4
8 - 4
7 - 4
9 - 4

3 + 3 + 3
4 + 3 + 3
8 - 3 - 3
10 - 3 - 3

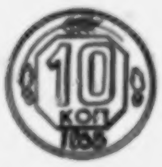
1 + 4 + 4
2 + 4 + 4
10 - 4 - 4
9 - 4 - 3

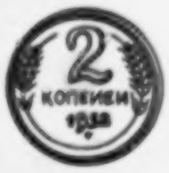
215. Make up a problem in which it is necessary to take away 3 from 10.

216.	4 + 5	3 + 6	3 + 5 - 6	1 + 6 - 5
	7 - 5	10 - 6	4 + 6 - 5	2 + 6 - 5
	9 - 5	7 - 6	2 + 5 - 6	9 - 5 + 6
	8 - 5	9 - 6	3 + 6 - 5	8 - 6 + 5

217. Make up a problem in which it is necessary to take away 6 from 8.

II.





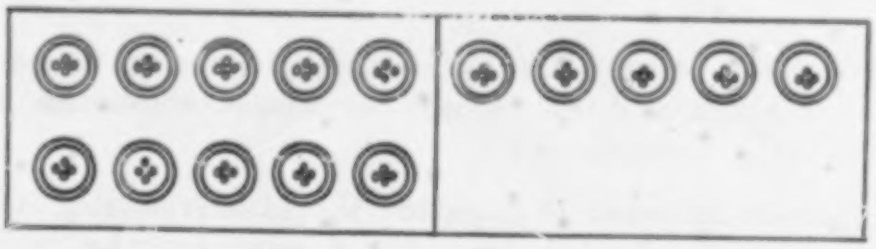
219. Kolia has 10 kopecks and 2 kopecks. How many kopecks does Kolia have in all?

220.	10 + 2	10 + 5	1 + 10	4 + 10
	10 + 6	10 + 8	3 + 10	7 + 10
	10 + 4	10 + 7	6 + 10	9 + 10

221. Nadia has ten kopecks and 5 kopecks. How many kopecks does Nadia have in all?

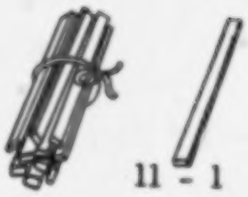
222. The brother has 10 kopecks and the sister has as many. How many kopecks do the brother and sister have together?

223.	10 + 2	10 + 3	1 + 10	5 + 10
	10 + 4	10 + 5	4 + 10	3 + 10
	10 + 6	10 + 7	8 + 10	9 + 10
	10 + 8	10 + 9	6 + 10	7 + 10
224.	10 + 4	10 + 3	10 + 6	10 + 9
	4 + 10	3 + 10	6 + 10	9 + 10



225. The seamstress had 15 buttons. She sewed 5 buttons to a shirt. How many buttons did she have left?

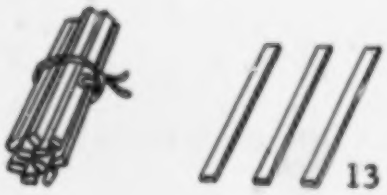
226. 10 + 1



11 - 1

11 - 10

10 + 3



13 - 3

13 - 10

227. 12 - 2
14 - 4
18 - 8
15 - 5

16 - 6
19 - 9
17 - 7
13 - 3

12 - 10
15 - 10
16 - 10
17 - 10

13 - 10
18 - 10
14 - 10
19 - 10

228. Distribute 14 sticks into two heaps. 4 sticks in one heap and the remainder in the other heap. How many sticks are in the other heap?

229. There are 16 pencils in 2 boxes. In one box there are 6 pencils, and in the other the remainder. How many pencils are there in the other box?

230. 10 + 2
2 + 10
12 - 2
12 - 10

10 + 6
6 + 10
16 - 6
16 - 10

5 + 10
10 + 5
15 - 10
15 - 5

7 + 10
10 + 7
17 - 10
17 - 7

231. 3 + 3 + 10
6 + 2 + 10
2 + 5 + 10

5 - 2 + 10
7 - 3 + 10
9 - 4 + 10

14 - 10 + 2
15 - 10 + 4
17 - 10 + 3

232. There were 14 balls in the kindergarten. Of these 10 were black and the remainder white. How many white balls were there?

233. The pioneers made 18 toys for the kindergarten. Of these 8 toys were for the older groups and the remainder for the younger group. How many toys did the pioneers make for the younger group?

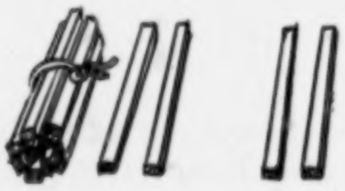
234.
4 + 4 + 10
2 + 6 + 10
1 + 8 + 10
3 + 7 + 10
9 - 3 + 10
7 - 5 + 10
10 - 6 + 10
9 - 4 + 10
14-10 + 6
13 - 10 + 7
19 - 10 - 8
18 - 10 - 3

Addition Without Going Across the Ten

235. How many tens and ones are there in the numbers:

12 ? 16? 18? 19?

236. They brought 12 pine logs and 2 birch logs from the forest. How many logs did they bring altogether?



12 + 2 =

---

2 + 2 = 4
10 + 4 = 14

237.
2 + 4
12 + 4
4 + 3
14 + 3
13 + 1
17 + 1
15 + 2
11 + 3
14 + 2
13 + 3
11 + 4
14 + 3
18 + 1
12 + 3
16 + 3
13 + 2

238. There were 13 small dolls and 4 large dolls in the kindergarten. How many dolls were there altogether?

239. At the beginning of the year, the class had 11 honor students. Then five more were added. How many honor students were there in the class in all?

240. 1 + 2   5 + 3   12 + 3   14 + 3
11 + 2   15 + 3   13 + 2   13 + 1
3 + 3   4 + 4   15 + 2   12 + 4
13 + 3   14 + 4   16 + 3   15 + 1

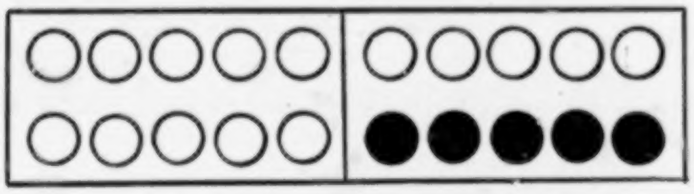
241. 1 + 5   14 + 3   15 + 4   13 + 5
11 + 5   11 + 8   13 + 6   11 + 6
1 + 7   12 + 6   12 + 5   14 + 5
11 + 7   13 + 5   16 + 3   15 + 3

242. At first they bought 15 hammers for the school and then they bought another 3 hammers. Complete the question and solve the problem.

243. There were 11 pictures in the school. They bought another ..... pictures. How many pictures were there in all. Fill in and solve this problem.

244. 11 + 5   17 + 2   14 + 3   15 + 4
14 + 4   13 + 4   13 + 5   12 + 7
12 + 6   11 + 8   11 + 7   12 + 3
15 + 3   12 + 5   13 + 6   14 + 5

245. A girl drew 15 white circles and 5 black circles. How many circles did she draw in all?



15 + 5 =

5 + 5 = 10
10 + 10 = 20

246. 19 + 1   12 + 8   17 + 3   12 + 8
16 + 4   14 + 6   11 + 9   13 + 7

247. A pupil read 12 pages of a book in one day and 8 pages in another day. How many pages did he read in two days?

248. 11 boys and 9 girls were cleaning the skating rink from snow. How many children in all were working on the skating rink?

249. Make up a problem in which it is necessary to add 5 to 15.

250. 14 + 6   13 + 5   14 + 6   13 + 7
12 + 5   12 + 8   12 + 3   15 + 4
11 + 9   15 + 2   16 + 2   12 + 8
17 + 2   16 + 4   17 + 3   11 + 7

251. Put down 11 sticks to the left and 3 sticks to the right. How many sticks will there be in all?

Put down 3 sticks to the left and 11 sticks to the right. How many sticks will there be in all?

252. 11 + 3 =   14 + 4 =   18 + 2 =
3 + 11 =   4 + 14 =   2 + 18 =

253. 1 + 15   4 + 12   1 + 19   6 + 13
6 + 11   1 + 17   4 + 16   4 + 14
5 + 15   3 + 14   5 + 13   3 + 17

254. 6 pupils had skiis at the beginning of winter, then another 14 pupils bought skiis. How many pupils have skiis now?

255. At first 7 pupils of the 1st class joined the library, then 12 more. Complete the question and solve the problem.

256. Make up a problem in which it is necessary to add 11 to 9.

257. 2 + 16   1 + 15   4 + 16   6 - 2 + 13
1 + 12   2 + 13   3 + 15   5 - 3 + 17
3 + 13   2 + 18   8 + 12   9 - 5 + 12
1 + 19   3 + 11   6 + 14   10 - 4 + 14

258. Count by two up to 20.   Count by five up to 20.

259. 13 + 6
11 + 7
12 + 4
17 + 3
15 + 3
16 + 4
18 + 1
14 + 3
4 + 11
7 + 13
5 + 12
3 + 14
8 - 2 + 11
9 - 7 + 13
10 - 6 + 16
7 - 3 + 15

260. A girl was feeding hens. She had 5 red hens and 11 white hens. Complete the question and solve the problem.

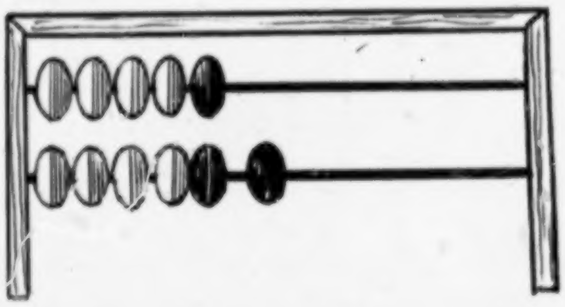
261. Two teams of skiers went for a walk. There were 12 men in one team and 8 in the other. Complete the question and solve the problem.

262. 7 - 5 + 10
8 - 7 + 10
9 - 6 + 10
5 - 3 + 12
8 - 2 + 11
7 - 4 + 13
8 - 6 + 18
10 - 7 + 17
7 - 2 + 13

Increasing By Several Ones

263. Set aside 7 bones on the first wire of the class abacus and as many on the second wire?

264. On the first wire there are 5 bones and on the 2nd as many, and another bone.



On the 2nd wire there is one more bone than on the first.

265. Set aside 6 bones on the 1st wire and as many on the 2nd wire and then another 2 bones.

On the second wire there are 2 more bones than on the first wire.

266. Put down 7 squares in one row and in another row put down 2 squares more. How many squares are there in the other row?

267. They gave one student 4 cubes and they must give the other one 2 cubes more. How many cubes must they give the other pupil?

268. Draw on the board on one line, 5 sticks and on the other 3 sticks more. How many sticks are there on the other line?

269. Peter has 6 books and Misha has 4 books more than Peter. How many books does Misha have?

270. There are 10 honor pupils in one class and in the other one there are 5 more than in the 1st one. How many honor pupils are there in the other class?

271. The first number is 8 and the second is 2 more than that. What is the second number equal to?

Increase the number 8 by 2, what will you have?

272. One number is 7 and the other is greater by 1. To what does the other number equal?

Increase the number 7 by 1, what will you have?

273.
10 + 4
10 + 8
10 + 6
10 + 3
10 + 5
10 + 9
1 + 10
4 + 10
6 + 10
5 + 10
3 + 10
7 + 10

274. A Game: A boys says "I have 3 sticks in one hand and in the other, more by 2; guess how many sticks there are in the other hand." You too play this type of game.

275. Increase:
11 by 2
12 by 4
14 by 3
16 by 2
13 by 3
11 by 7

276. A toy boat cost 11 rubles and a ship is 4 rubles dearer. How much does the ship cost?

277. The mitten costs 12 rubles and the kerchief is 6 rubles dearer. How much does the kerchief cost?

278. Make up a problem similar to the previous one but with other numbers.

279. The brother is 10 years old and the sister is 3 years older than the brother. How old is the sister?

280. Make up a problem similar to the previous one but with other numbers.

281.
12 + 6
14 + 2
11 + 4
13 + 3
14 + 4
16 + 2
15 + 1
12 + 3
18 + 2
14 + 6
13 + 4
11 + 9
15 + 5
13 + 6
18 + 2
14 + 5

282. Increase:
12 by 2
14 by 4
13 by 2
16 by 3
15 by 5
18 by 2
2 by 12
3 by 13

283. One hunter brought 14 squirrels from the hunt and the other brought 4 squirrels more than the first. How many squirrels did the hunter bring?

284. Paia is 13 years old and her brother is 2 years older. How old is the brother?

285. Mother bought the children 2 toys. Mother bought one toy that cost 11 dollars and the other 3 dollars more. How much did the other toy cost?

286.
13 + 3
15 + 4
11 + 6
4 + 11
3 + 16
5 + 12
4 + 16
1 + 19
6 + 12
7 + 12
9 + 11
5 + 14

287. Increase:
13 by 5
17 by 3
8 by 10
4 by 12
3 by 11
1 by 19

288. There are 6 pens in one box and the other one has 4 pens more. How many pens are there in the other box?

There are 6 pens in one box and there are 10 in the other. How many pens are there together in two boxes?

289. One day children made 4 toys for the Christmas tree and during the other day they made 2 toys more. How many toys did they make during the second day?

In one day children made 4 Christmas tree toys and in another day 6 toys. How many toys did they make during both days?

290. 10 + 8   17 + 2   1 + 19   6 + 11
9 + 10   14 + 6   5 + 13   3 + 14
10 + 10   11 + 7   2 + 17   8 + 12

291. Increase each of the following numbers by 4:

6   10   15   11   13   16

292. They brought 2 logs from the forest. One was 4 meters long and the other was 3 meters longer. What length was the other log?

293. Make up a problem similar to the preceding one with different numbers.

294. The width of a room is 6 M, the other room is 3 M wider. What is the width of the other room?

295. The height of the old house is 6 M. The new house is 14 M higher than the old one. What is the height of the new house?

296. Make up a problem similar to the previous one using other numbers.

297. Draw 2 plates with apples, in such a manner that the 2nd plate has 2 apples more than the first one.

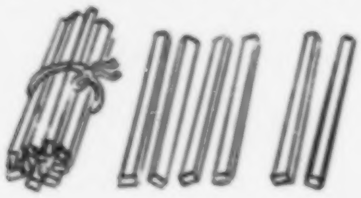
298. In your notebook outline with a pencil 2 columns of squares in such a manner that the 2nd column would have 4 squares more than the first one.

299. 6 - 5 + 18   10 - 7 + 12   10 - 4 + 13
8 - 6 + 14   9 - 4 + 13   7 - 5 + 15
5 - 2 + 13   8 - 3 + 15   8 - 6 + 17

Subtraction of One Place Numbers Without Crossing Over the First Ten

300. 5 - 2   9 - 3   7 - 3   9 - 2   9 - 4
10 + 3   10 + 6   10 + 4   10 + 7   10 + 5

301. There were 16 pencils in the box. 2 pencils were removed from it. How many pencils remained in the box?



16 - 2 =

6 - 2 = 4
10 + 4 = 14

302. 8 - 4   12 - 1   18 - 4   14 - 3
18 - 4   14 - 2   15 - 2   18 - 2
5 - 3   16 - 3   17 - 1   19 - 1
15 - 3   18 - 2   18 - 2   17 - 3

303. A carpenter must repair 18 chairs. He repaired 6 chairs. How many chairs did he have left to repair?

304. A painter must paint 16 drawers. He painted 5 drawers. Complete the question and solve the problem.

305. 3 - 1   18 - 7   19 - 8   16 - 5
13 - 1   16 - 5   18 - 5   19 - 7
7 - 3   19 - 6   15 - 4   18 - 6
17 - 3   17 - 5   17 - 6   17 - 4

306.

16	18	15	- 3
19	14	17	

14	17	15	- 4
18	16	19	

307. There are 18 pages in the book. A girl read 6 pages. Complete the question and solve the problem.

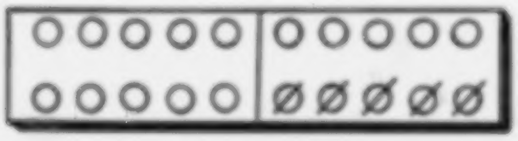
308. Kolia drew 10 circles and Luda drew 8 circles more. How many circles did Luda draw?

If Luda drew 18 circles and colored 6 of them. How many circles does she have left to color?

309.

6 - 3	5 - 3	14 + 3	16 + 3
16 - 3	15 - 3	14 - 3	16 - 3
9 - 4	8 - 7	15 + 4	17 + 2
19 - 4	18 - 7	15 - 4	17 - 2

310. Mother had 20 eggs, she made an omlet out of 5 eggs. How many eggs remainded?



20 - 5 =

10 - 5 = 5

10 + 5 = 15

311.

20 - 1	20 - 4	20 - 8	20 - 3
20 - 2	20 - 6	20 - 7	20 - 9

312. The pupils of the first class made 20 toys for decorating a Christmas tree, of these 6 were made from paper and the remainder from cardboard. How many toys did they make from cardboard?

313. Sedia and Ura made together 20 red stars for the holidays. Sedia made 8 stars and Ura made the remainder. Complete the question and solve the problem.

314. 10 - 2
20 - 2
10 - 5
20 - 5
10 - 3
20 - 3
10 - 7
20 - 7
20 - 2
20 - 8
20 - 1
20 - 4
20 - 9
20 - 3
20 - 6
20 - 7

315.

15	17	16
18	20	19

- 5

316. Tania had 16 postcards. For her birthday she received 4 more. How many postcards does Tania have in all?

Tania had 20 postcards. She gave 6 postcards for the class album. How many postcards does Tania have left?

317. 14 + 2
16 + 3
12 + 6
13 + 7
8 + 11
4 + 16
2 + 17
5 + 13
12 + 3
15 - 3
14 + 5
19 - 5
17 + 3
20 - 3
12 + 8
20 - 8

318. In the following examples find an example with an answer of 13, then of 14, 15, and so forth:

13 + 5
3 + 12
20 - 6
16 + 4
19 - 3
2 + 17
17 - 4
5 + 12

319. There are 10 glasses of milk in the pitcher and there are 6 glasses more in the milk can. How many glasses of milk are there in the milk can?

There were 16 glasses of milk in the milk can. 5 glasses were taken for dinner. How much milk remained in the can?

320. 10 + 2 + 3
16 + 2 + 2
13 + 3 + 4
14 + 3 + 2
17 - 1 - 2
19 - 2 - 2
16 - 1 - 3
18 - 3 - 2
20 - 2 - 4
20 - 4 - 3
20 - 6 - 3
20 - 7 - 10

Decreasing By Several Units

321. Set aside 5 bones on the 1st wire of the class abacus and as many on the second wire. Then take away one from the wire.

There is one bone less on the second wire than there is on the first.

322. Set aside 7 bones on the 1st wire of the class abacus and on the second wire 2 bones less.

323. One pupil was given 4 pencils and one must give another pupil one pencil less. How many pencils will the other pupil get?

324. Draw 5 circles on one line, and draw 1 circles less on another line. how many circles must you draw on the other line?

325. Place 6 squares in one column and place 2 squares less in another column. How many squares are there in the other column?

326. Peter has 8 rabbits and Mishia has 2 rabbits less. How many rabbits does Mishia have?

327. Tania has 9 pigeons and Volodia has 5 pigeons less. How many pigeons does Volodia have?

328. The first number is 8 and the second is 3 less than the first. What does the other number equal to?

329. One number is 10 and the other is 2 less than the first. What does the 2nd number equal to?

Diminish the number 10 by 2, what number will that make?

330. 15 - 5
17 - 7
13 - 3
19 - 9
14 - 10
16 - 10
11 - 10
20 - 10
15 - 10
14 - 10
16 - 6
18 - 8
17 - 10
13 - 3
19 - 10
12 - 2

331. A Game: A pupil says "Number 10 is written on one card and on another card is written a number which is three

[cont.]

331. [cont] less than the other. Guess which number is written on the other card?

332. What number is 2 less than 14? One less than 15? 4 less than 18?

333. An album cost 8 rubles and the paints are 3 rubles cheaper. How much do the paints cost?

334. A pot costs 20 rubles and a teapot is 5 rubles cheaper. How much does the teapot cost?

335. Make up a problem similar to the preceding one but with other numbers.

336. The brother is 16 years old and the sister is 5 years younger. How old is the sister?

337. Make up a problem similar to the previous one but with other numbers.

338.
10 + 9
13 + 5
17 + 3
7 + 10
4 + 15
5 + 12
16 - 6
14 - 10
19 - 2
15 - 4
18 - 5
17 - 6

339. Mother bought the children 2 dolls. The large doll cost 16 dollars and a small one was 10 dollars cheaper. How much did the small doll cost?

340. Zoya is 14 years old and Mura is 4 years younger. How old is Mura?

Mura is 10 years old and her brother is 3 years younger. Holw old is her brother?

341.
17 - 10
14 + 4
18 - 2
16 + 3
14 - 3
12 + 6
19 - 8
20 - 5
14 + 3
7 + 12
20 - 3
16 - 5
20 - 8
16 - 6
17 - 5
17 - 7

342. Diminish: 6 by 2; 14 by 4; 15 by 5.
Increase: 6 by 2; 14 by 4; 15 by 5.

343. Volodia has 5 colored pencils and 3 less black ones. How many black pencils does he have?

Volodia has 5 colored pencils and 2 black ones. How many pencils does he have in all?

344. Nina helped Mother to wash dishes. Nina washed 4 soup plates and 2 more smaller plates. How many smaller plates did Nina wash?

Nina washed 4 soup plates and 6 small plates. How many plates did she wash in all?

345. 14 + 5 - 3
12 + 7 - 8
13 + 5 - 8
12 - 2 + 9
16 - 5 + 7
20 - 4 + 2
19 - 3 - 6
20 - 2 - 4
17 - 3 - 3

346. Diminish each of the following numbers by five:

9 15 18 20 17

347. For a game of horsie, Xenia had a rope 3 meters long and Metia had one 1 meter shorter. What length was Metia's rope?

348. One board is 9 M long, another board is 3 M shorter. What is the length of the shorter board?

349. Make up a problem similar to the previous one with other numbers.

350. Two Christmas trees for children were placed in the square. One was 15 meters high and one was 3 meters lower. What was the height of the second Christmas tree.

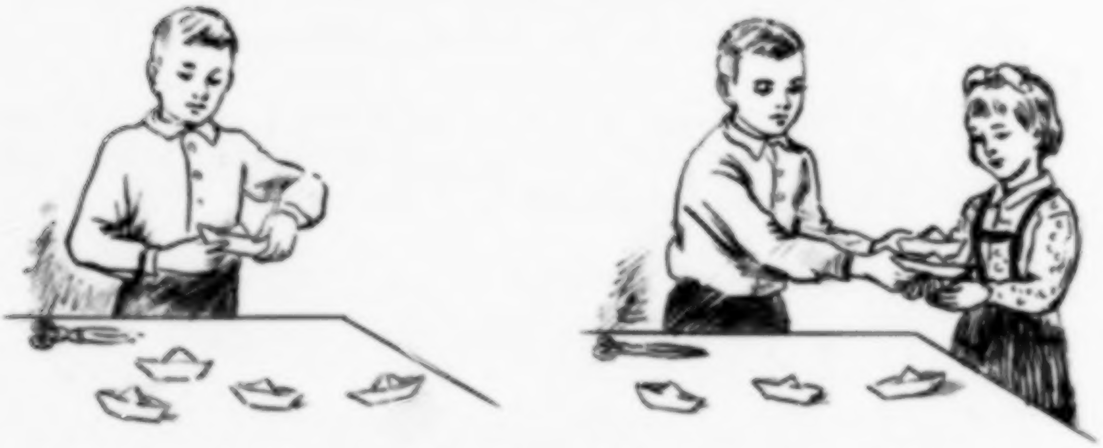
351. Two birches grow in front of the school. One is 16 M tall and the other is 5 M lower. What is the height of the other birch?

352. Draw 2 plates with cucumbers in such a way that the second plate will have one cucumber less than the first plate.

353. Outline with a pencil two columns of squares in such a manner that the second column will have 3 squares less than the first one.

354. 10 + 8 - 3   17 - 7 + 8   18 - 10 - 8
16 + 3 - 5   16 - 5 + 4   19 - 7 - 2
11 + 9 - 6   20 - 7 + 5   20 - 3 - 4

Problem With Two Operations



355. A boy made at first 4 boats and then another boat. He gave 2 boats to his sister, how many boats did the boy have left?

356. Nadia made at first 3 toys for a Christmas tree, and then she made another two. She gave one toy to her friend, how many toys for the Christmas tree did Nadia have left?

357. Sonia bought at first 6 notebooks and then she bought two more. From these she gave her brother 3 notebooks. How many notebooks did Sonia have left?

358. 10 + 8   16 + 2   3 + 15   10 + 6
10 + 5   13 + 4   2 + 17   16 + 3
3 + 10   12 + 6   4 + 16   8 + 12
7 + 10   10 + 9   6 + 13   5 + 13

359. A girl bought a tooth brush for 3 rubles and a bandage for 1 ruble. She gave 5 rubles to the cashier, how much change did she receive?

2 rubles

3 rubles

1 ruble

360. Make up a problem using the above picture which is similar to the preceding problem.

361. A father bought his son a book for 5 rubles and an album for 4 rubles. He gave 10 rubles to the cashier. How much change did the father get?

362.
16 - 6
14 - 4
18 - 10
13 - 10
16 - 4
18 - 3
17 - 5
19 - 4
20 - 2
20 - 5
20 - 6
20 - 9
17 - 7
17 - 5
20 - 8
19 - 3

363. Shura had 5 notebooks. She gave her brother 1 notebook, then she bought another 2 notebooks. How many notebooks did Shura have in all?

364. Nura had 6 copying pictures. She gave her friend two pictures, then Nura bought 5 more pictures. How many pictures did Nura have in all=

365.
13 + 5
18 - 5
12 + 7
19 - 7
16 + 4
20 - 9
17 + 3
20 - 6
14 + 3
18 - 5
19 - 8
18 + 2
5 + 12
20 - 9
6 + 13
18 - 7

366. A barrel contained 15 pails of water. 5 pails were taken out for washing clothes, then 8 pails were poured into the barrel. How many pails of water were there in the barrel in all?

367. 10 boys were playing in the yard. Then 5 boys came over and 3 boys went home. How many boys were there in the yard?

368. 8 girls were skating on the skating rink. 2 girls became cold and went home, then 3 more girls came to the skating rink. How many girls were there on the skating rink in all?

369.
10 + 9   16 - 10   20 - 8   20 - 4
16 - 4   15 + 4   16 - 6   16 + 3
20 - 1   17 - 6   12 + 7   19 - 5
18 - 2   19 - 4   14 - 10   11 + 8

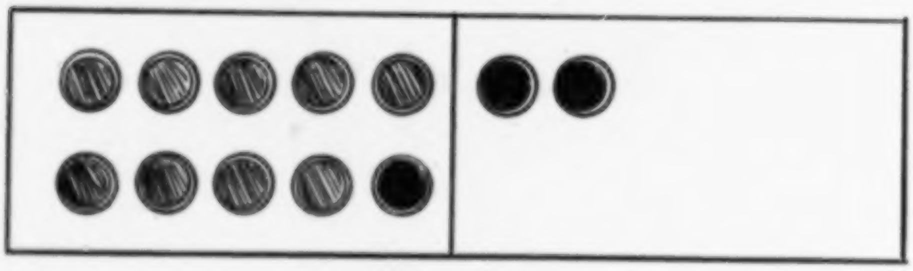
Addition With Passage Across Ten

370. How much must one add to 9 in order to obtain 10?

371.
8 - 1   10 + 4   9 + 1 + 2   9 + 1 + 5
7 - 1   10 + 7   9 + 1 + 4   9 + 1 + 8

372. Add 1 stick to 9 sticks. How many sticks will there be in all?

To the obtained 10, add another 2 sticks, how many sticks will there be in all?



$$\frac{9 + 3 =}{\begin{array}{l} 9 + 1 = 10 \\ 10 + 2 = 12 \end{array}}$$

373. Set aside on the abacus 9 bones and then another 4 bones. How many bones did you set aside in all?

374.
9 + 2   9 + 5   9 + 5   9 + 7
9 + 4   9 + 8   9 + 9   9 + 3

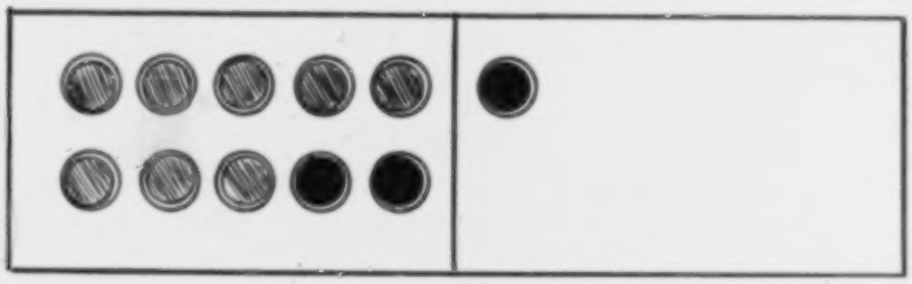
375. Valia had 9 drawings in her notebook. She made another 3 drawings. How many drawings did she have in her notebook altogether?

376. Varia knows 9 poems by heart and Zina knows two more than Varia. How many poems does Zina know?

377.
9 + 2
9 + 5
9 + 3
9 + 4
9 + 7
9 + 9
9 + 6
9 + 8
9 + 7
8 + 2 + 3
8 + 2 + 7
8 + 2 + 5

378. How much must one add to 8 in order to obtain 10?

379.
3 - 2
6 - 2
5 - 2
7 - 2
8 + 2 + 2
8 + 2 + 5
8 + 2 + 4
8 + 2 + 6



$$\frac{8 + 3 =}{\begin{gathered} 8 + 2 = 10 \\ 10 + 1 = 11 \end{gathered}}$$

380.
8 + 4
8 + 6
8 + 5
8 + 8
8 + 7
8 + 9

381. During the school holiday, 8 first class pupils sang in the chorus and 4 pupils read poems. How many first class pupils performed during the holidays?

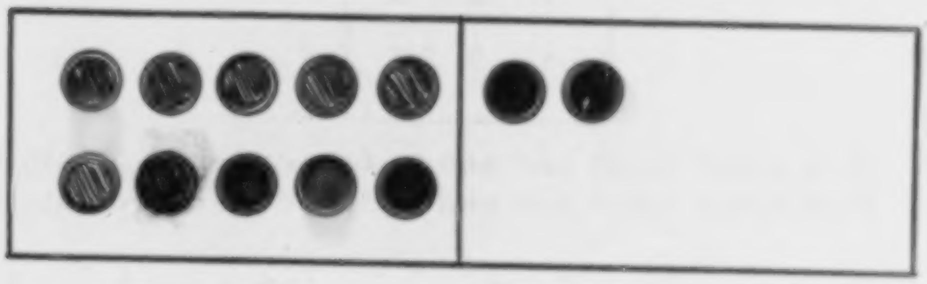
382. A boy had 3 books. They brought him 5 more books. He gave 3 books to his friend to read. How many books did the boy have left?

383.
8 + 4
8 + 6
8 + 3
8 + 5
8 + 8
8 + 7
8 + 9
8 + 6
9 + 5
9 + 3
9 + 9
9 + 7
12 + 7
13 + 5
17 + 3
5 + 14

384. How much must you add to 7 to obtain 10?

385.
5 - 3
8 - 3
7 - 3
6 - 3
7 + 3 + 2
7 + 3 + 5
7 + 3 + 6
7 + 3 + 4

386. There were 7 balls on the childrens playground. They bought 5 more balls, how many balls in all are there?

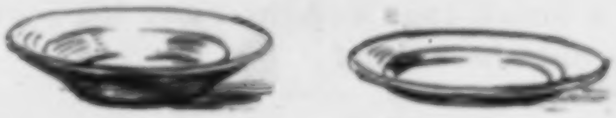


$$\frac{7 + 5 =}{7 + 3 = 10}$$

$10 + 2 = 12$

387. A mother brought up 7 sons and 5 daughters. How many children does the mother have in all?

388.
7 + 4
7 + 6
7 + 8
7 + 7
7 + 5
7 + 9



7 rubles

.... rubles

389. A soup plate costs 7 rubles and the shallow plate is 3 rubles cheaper. How much did the shallow plate cost? How much did the deep plate and the shallow plate cost together?

390. Mother bought the children Bingo and Checkers. The Bingo cost 7 rubles and the Checkers cheaper by one ruble. How much did the Checkers cost? How much did both games cost?

391.
9 + 5
9 + 9
9 + 4
9 + 7

8 + 4
8 + 7
8 + 5
8 + 9

7 + 5
7 + 7
7 + 4
7 + 9

17 - 4
18 - 6
19 - 5
20 - 3

392.

$$8 + \boxed{\begin{matrix} 4 & 8 & 6 \\ 5 & 9 & 7 \end{matrix}}$$

393. How much must one add to 6 in order to obtain 10?
How much must one add to 5 in order to obtain 10?

394.
6 - 4
8 - 4

7 - 4
9 - 4

6 + 4 + 5
6 + 4 + 3

5 + 5 + 2
5 + 5 + 4

395.
6 + 5 =
6 + 4 = 10
10 + 1 = 11

6 + 8
6 + 6
6 + 9

5 + 7 =
5 + 5 = 10
10 + 2 = 12

5 + 7
5 + 9
5 + 8

396. Tania washed dishes with her brother. Tania washed 6 plates and the brother washed 2 plates less. How many plates did they wash together?

397. Velida helps Mother to light the stove. Lida brought at first 6 small logs and then one log less. How many logs in all did she bring?

398.
6 + 6
7 + 7
8 + 8
9 + 9

8 + 7
5 + 9
6 + 7
8 + 5

12 + 7
14 + 6
3 + 15
7 + 13

18 - 6
17 - 4
19 - 7
20 - 3

399. How much must one add to 4 in order to obtain 10?

How much must one add to 3 in order to obtain 10?

400.
8 - 6 9 - 7 4 + 6 + 1 4 + 6 + 2
9 - 6 10 - 7 4 + 6 + 3 3 + 7 + 2

401.
4 + 7 = 3 + 8 =

---

4 + 6 = 10 3 + 7 = 10
10 + 1 = 11 10 + 1 = 11

402.
4 + 9 4 + 8 4 + 7 3 + 9 2 + 9
9 + 4 8 + 4 7 + 4 9 + 3 9 + 2

403. Tania knew 4 poems before entering school. She learned 8 more poems in school. How many poems in all does Tania know?

404. There are 3 pens in one box and there are 5 pens more in another box. How many pens are there in all in the two boxes?

405. The brother made 4 Christmas tree toys and the sister made 3 toys more. How many toys did they make together?

406. 3 green lamps burned on the Christmas tree and there were 6 more red ones. How many lamps were there burning on the Christmas tree altogether?

407.
10 - 7 + 9 6 + 9 + 3 5 + 7 - 10
7 - 3 + 8 7 + 8 + 4 6 + 7 - 2
10 - 2 + 9 4 + 7 + 9 8 + 9 - 5
9 - 4 + 8 3 + 9 + 7 9 + 9 - 6

408.

		5	7	8
3	+	9	6	10
		12	15	13

409. Count by 3 up to 18.

Count by 4 up to 20.

410. The children established a feeding station for birds. 7 Sparrows flew to the feeding station and there were 5 Blue Jays. How many birds altogether flew to the feeding station?

411. Make up a problem similar to the preceding one only with different numbers and solve it.

412.
3 + 4 + 9
10 - 4 + 8
9 - 5 + 7

18 - 4 - 3
19 - 5 - 2
20 - 3 - 6

7 + 8 - 4
9 + 7 - 5
4 + 7 + 8

Subtraction With Passage Across Ten

413. How much must one take away from 11 to obtain 10?

414.
7 - 1
5 - 1

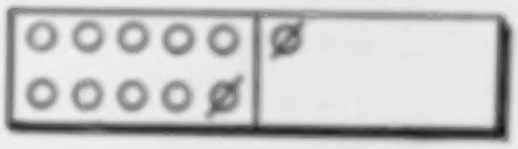
11 - 1 - 1
11 - 1 - 3

11 - 1 - 2
11 - 1 - 4

11 - 1 - 7
11 - 1 - 5

415. Place on the desk ten sticks and one stick. Take from them 2 sticks and place them in a box. How many sticks will remain on the desk?

416. Set aside on the abacus two bones and 11 bones. Take away two bones, how many bones remain?



11 - 2 =

11 - 1 = 10
10 - 1 = 9

417.
11 - 3
11 - 5

11 - 4
11 - 6

11 - 9
11 - 7

418. During the manual arts lesson a monitor must issue 11 scissors to the students. He already issued 5 scissors. How many scissors are left for him to issue?

419. A monitor must issue 11 brushes for glue. He already issued 7 brushes. Complete the question and solve the problem.

420.
11 - 3
11 - 5
11 - 2
11 - 4
11 - 6
11 - 8
11 - 9
11 - 7
11 - 5
12 - 2 - 3
12 - 2 - 6
12 - 2 - 4

421. How much must one take away from 12 to obtain 10?

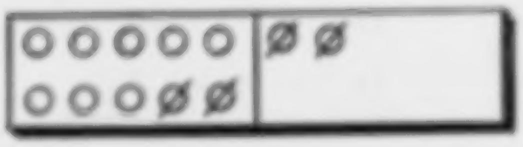
422.

4	8	6
5	9	7

- 2

12 - 2 - 2
12 - 2 - 5
12 - 2 - 4
12 - 2 - 7

423. A teacher had 12 pencils. She gave children 4 pencils during the drawing classes. How many pencils did the teacher have left?



12 - 4 =

12 - 2 = 10
10 - 2 = 8

424.
12 - 3
12 - 6
12 - 5
12 - 8
12 - 7
12 - 9

425. A boy caught 12 carp. Of these 3 were large and the rest were small. How many small carp did the boy catch?

426. The school stocked 12 spools of white and black thread for the sewing circle. There were 6 spools of white thread and the remainder were black. How many spools of black thread were there?

427. A sewing circle had 12 thick and thin needles. There were 5 thick needles and the remainder were thin. How many thin needles were there?

428.
12 - 4
12 - 6
12 - 3
12 - 8

12 - 5
12 - 7
12 - 9
12 - 3

11 - 4
11 - 8
11 - 7
11 - 9

13 + 6
19 - 7
17 - 4
20 - 6

429. How much must one take away from 13 to obtain 10?

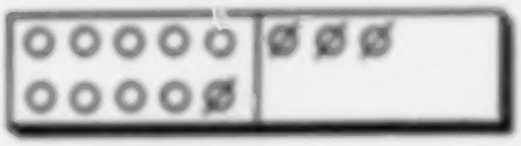
430.

5	7	4
6	9	8

- 3

13 - 3 - 1
13 - 3 - 3
13 - 3 - 2

13 - 3 - 5
13 - 3 - 6
13 - 3 - 4



13 - 4 =

13 - 3 = 10
10 - 1 = 9

431.
13 - 6
13 - 8

13 - 5
13 - 4

13 - 7
13 - 9

432. The school stocked 13 long logs for repairs and five less short ones. How many short logs did the school stock?

433. The stove makers assembled 4 stoves during the first day and 5 stoves during the second day. They had to assemble 13 stoves in all. How many remained for them to assemble?

434. 13 - 5
13 - 7
13 - 9
13 - 6
11 - 5
11 - 8
12 - 9
11 - 7
4 + 7
5 + 9
8 + 7
3 + 9
13 + 5
18 - 3
20 - 7
20 - 9

435. Subtract by 3 from 18 until you receive 0.

Subtract by 5 from 20 until you receive 0.

436. How much must one take away from 14 to obtain 10?

437.

5	8	6
9	7	10

- 4

14 - 4 - 2
14 - 4 - 3
14 - 4 - 5
14 - 4 - 4

438. 14 - 5 =

---

14 - 4 = 10
10 - 1 = 9

15 - 7 =

---

15 - 5 = 10
10 - 2 = 8

439. 14 - 6
14 - 8
14 - 7
14 - 9
15 - 6
15 - 9
15 - 7
15 - 8

440. 14 children skated downhill during the day and 6 less skated during the evening. How many children were skating during the evening?

441. A boy bought paint for 4 rubles and an album for drawing for 3 rubles. He had 15 rubles before the making the purchase. How much money did he have left after the purchase?

442. A girl had 14 rubles. She bought ribbons for 5 rubles and thread for 3 rubles. How much money did the girl have left after the purchase?

443. 14 - 5
14 - 8
14 - 6
14 - 9
15 - 7
15 - 6
15 - 9
15 - 8
11 - 6
12 - 9
13 - 7
12 - 8
8 + 8
3 + 8
7 + 6
9 + 9
14 + 5
18 - 7
19 - 7
20 - 3

444. How much must one take away from 16 to obtain 10?

How much must one take away from 17 to obtain 10?

How much must one take away from 18 to obtain 10?

445. 16 - 8 =

---

16 - 6 = 10
10 - 2 = 8

16 - 7
16 - 9
16 - 8

17 - 8 =

---

17 - 7 = 10
10 - 1 = 9

17 - 9
17 - 8
18 - 9

446. Of 16 skiers, 7 remained and the rest went ahead. How many skiers went ahead?

447. One had to iron 16 hankerchiefs. Mother ironed 9 handkerchiefs and Nina ironed the rest. Complete the question and solve the problem.

448. Sasha had to learn a poem of . . . lines. He already learned 8 lines. How many lines are there left for him to learn? Complete and solve the problem.

449. 13 + 3 - 8
12 + 6 - 9
14 + 4 - 9
11 + 9 - 8

13 - 8 + 9
16 - 7 + 5
15 - 8 + 6
17 - 9 + 3

11 - 6 + 12
12 -8 + 16
15 - 9 + 11
13 - 8 + 14

450. 14 + 5
20 - 8
13 - 7
4 + 9

20 - 6
13 - 8
6 + 9
11 - 8

3 + 8
15 - 4
16 - 9
3 + 15

451. Increase: 10 by 3; 15 by 3; 14 by 4; 13 by 7.

Decrease: 15 by 2; 16 by 7; 11 by 3; 16 by 8.

452. Children were building a snow hill. Grecia bought 12 sleighs of snow and Ira brought 5 sleighs of snow less. How many sleighs of snow did the children bring in all?

453. To water the snowhill, the children first brought 7 pails of water and then 2 pails of water less. How many pails of water did they bring in all?

454. Children were playing snowballs. There were 9 men on one side and 2 men more on the other side. How many children were playing snowballs in all?

455. For lessons in manual arts, they bought some paper 6 sheets of green and 3 sheets more of red paper. How many sheets of paper were bought in all?

456.
8 + 7
15 - 8
4 + 9
13 - 9

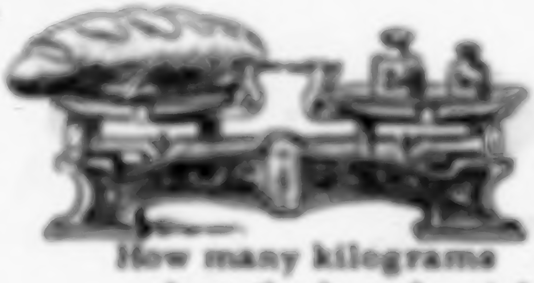
19 - 5 - 9
20 - 3 - 8
14 - 5 - 9
18 - 3 - 7

20 - 7 - 8
16 - 6 - 9
18 - 4 - 7
20 - 4 - 8

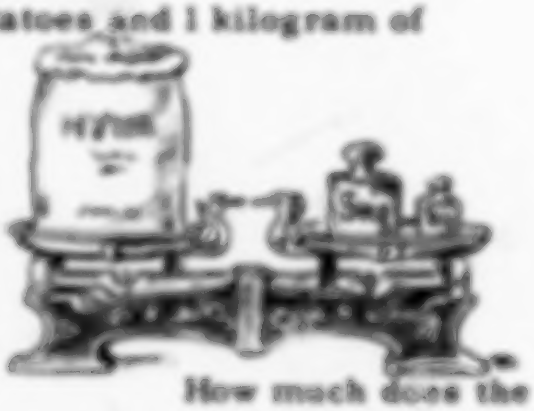
KILOGRAM

457. Weigh out 1 kilogram of potatoes and 1 kilogram of sand.

458.



How many kilograms does the bread weigh?



How much does the flour weigh?

459. Weigh out 2 kilograms of potatoes and 3 kilograms of potatoes.

The word "Kilogram" is abbreviated Kg

460. The children bought 4 kilograms of carrots and 6 kilograms of cabbage for the rabbits. How many kilograms of vegetables did they buy in all?

461. Nisha helped his grandmother carry 3 Kg of potatoes and 3 Kg of carrots from the market. Complete the question and solve the problem.

462. Mother bought 11 Kg. of cabbage. She carried 7 Kg. and Valia helped her to carry the rest of the cabbage. How many Kg. did Valia carry?

463. A little pig weighed 16 Kg. He gained 3 Kg. in weight. in a week. How many Kg. did the little pig weigh?

464. One piglet weighed 3 Kg. and another was 2 Kg. heavier. How much did the two little pigs weigh together?

465. Make up a problem in which it is necessary to add: 9 Kg. to 10 Kg. and to subtract 10 Kg. from 14 Kg.

466.

17 + 2   18 - 5   4 + 7   11 - 6
12 + 5   17 - 4   5 + 9   15 - 9
16 + 3   20 - 8   8 + 7   14 - 8
11 + 9   20 - 3   3 + 9   16 - 9

Subtraction of Two Place Numbers

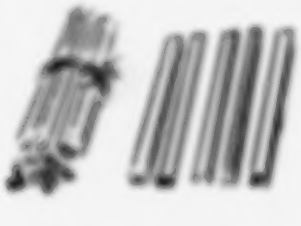
467.

14 - 10 - 2   18 - 10 - 4   19 - 10 - 4
15 - 10 - 3   16 - 10 - 3   17 - 10 - 6

468. Put down 14 sticks, take away 12 sticks. How many sticks remain?

469. Set aside on the abacus 19 bones. Take away 11 bones. How many bones remain?

470. There were 15 pencils in the box. 12 pencils were taken away from it. How many pencils remained in the box?



15 - 12 =

---

15 - 10 = 5
5 - 2 = 3

471. 18 - 12   13 - 11   15 - 11   18 - 15
16 - 14   17 - 15   18 - 17   17 - 14
16 - 12   19 - 14   19 - 13   19 - 12

472. It was necessary to build 18 houses in the town. 16 houses were already built. How many houses remained to be built?

473. 15 - 13   16 - 12   19 - 15   16 + 3
14 - 12   18 - 14   17 - 12   6 + 14
19 - 11   19 - 16   15 - 14   7 + 9
14 - 13   16 - 11   19 - 17   4 + 7

474. 18 - 16   19 - 18   19 - 16   15 - 13
19 - 11   17 - 12   16 - 13   17 - 14
16 - 12   15 - 11   18 - 11   19 - 13

475. A pupil had to solve 16 exercises. He already solved 12 exercises. How many exercises did he have left to solve?

476. A boy read a 16 page book in two days. He read 11 pages during the first day and the rest during the second day. How many pages did he read during the second day?

477. Make up a problem in which it is necessary to take away 14 from 18.

478. 18 - 12   18 - 13   4 + 14   18 - 3
19 - 17   17 - 12   18 - 14   20 - 6
17 - 13   19 - 16   5 + 11   11 - 8
18 - 11   17 - 14   16 - 11   13 - 9

479. There were 20 brushes for drawing in the chest. Of these 12 brushes were sold. How many brushes remained?

20 - 12 =

---

20 - 10 = 10
10 - 2 = 8

480. 20 - 11 20 - 14 20 - 13 20 - 17
20 - 15 20 - 18 20 - 16 20 - 19

481. There were 20 fish in one acquarium and in another there were 11 less. How many fish were there in the other acquarium?

482. Children made 20 envelopes from the white paper and 15 envelopes less from the rose paper. How many rose envelopes did the children make?

483. There were 20 clear days in February and there were 12 less cloudy days. How many cloudy days were there in February?

484. 20 - 11 17 - 12 20 - 16 6 + 13
20 - 18 18 - 15 19 - 16 7 + 9
20 - 17 19 - 13 20 - 13 20 - 7
20 - 19 20 - 14 19 - 17 14 - 9

485.

16	18	20	- 14
15	19	17	

486. They bought 20 pages of green paper and 14 pages less of red paper. Complete the question in order to solve the problem in a single action.

487. A boy cut out at first 10 sticks and then 4 more sticks. He had to cut out altogether 30 sticks. How many sticks remained for him to cut out?

488. Make up a problem similar to the preceding one and solve it?

489. To study sculpture they bought 2 boxes of plasticene. There were 7 pieces of plasticene in one box and in the other as many. Children were issued 13 pieces, how many pieces of plasticene were left?

490. 12 + 6

6 + 12

18 - 6

18 - 12

19 - 14 + 9

20 - 13 + 6

17 - 11 + 13

20 - 17 + 15

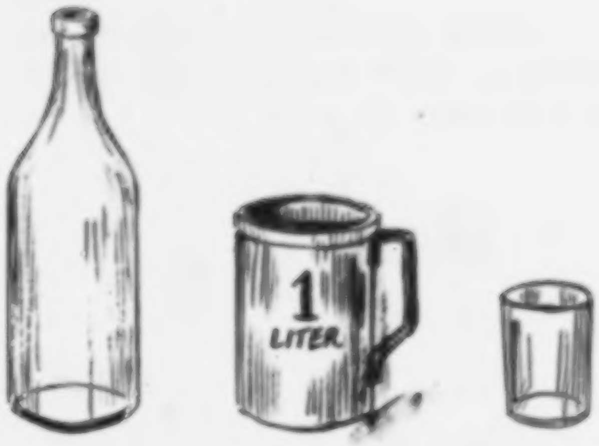
18 - 4 - 6

19 - 3 - 8

20 - 7 - 4

20 - 6 - 5

LITER



491. Check how many glasses of water can be poured into a liter cup.

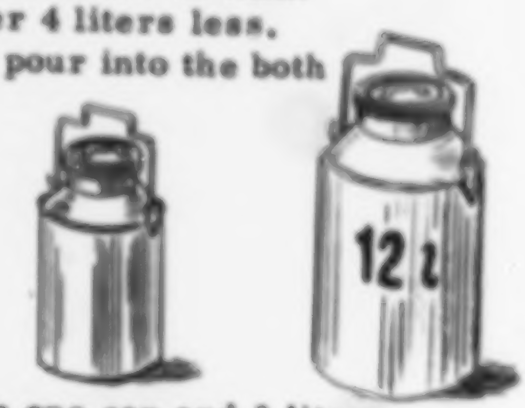
492. Pour one liter into a jar. Pour 2 liters. Pour 3 liters.

The word " Liter " can be abbreviated l

493. A collective farm woman worker milked 16 liters of milk from a cow and 2 liters from a goat. How many liters of milk did she obtain altogether?

494. Mother obtained 4 liters of milk. Of these 2 liters of milk were drunk during supper and from the remaining milk, they made cottage cheese. How many liters of milk were used for the cottage cheese?

495. A collective farm worker poured 12 liters of milk into one milkcan and into the other 4 liters less. How many liters of milk did she pour into the both cans?



496. There are 12 liters of kerosene in one can and 3 liters more in another. How many liters of kerosene are there in the two cans in all?

REVIEW

497.
12 + 5
6 + 14
5 + 9
4 + 7
18 - 3
20 - 12
16 - 9
15 - 7
15 + 3
3 + 15
18 - 3
18 - 15
13 + 7
7 + 13
20 - 7
20 - 13

498. How much must be added to 10 to make 12?

499.
6 + ... = 12
9 + ... = 11
10 + ... = 16
12 + ... = 14
8 + ... = 18
7 + ... = 12

500. They cut the rope up into 2 parts. There were 7 M in one part and 6 M in the other. What length was the entire rope?

501. There were 8 light cars and 4 trucks in the square. 10 machines went away. How many machines remained in the square?

502. 8 boys and 3 girls were making a snowman. 5 children were called home. How many children remained to build the snowman?

503. 6 children rode down the hill in sleighs. 2 went home and 5 children came to the hill for the first time. How many cyildren are there riding down the hill in all?

504.
8 + ... = 12
9 + ... = 11
7 + ... = 12
12 + ... = 14
15 + ... = 18
15 + ... = 20
4 + ... = 15
3 + ... = 20
3 + ... = 16

505. Guessing of Numbers: A pupil says "I added a number to 6 and received 11 as an answer. Guess what number I added." You too play such a game.

506. To what number must one add 2 in order to obtain 11?

507.
... + 1 = 11
... + 3 = 14
... + 2 = 11
... + 4 = 12
... + 2 = 20
... + 5 = 14

508. 11 plums are on two plates. On one of the plates are 8 plums, how many plums are on the other plate?

509. A collective farm sent 18 trucks with apples and pears to Moscow. 9 trucks were with apples and then how many trucks were with pears?

510.
... + 4 = 12
... + 5 = 20
... + 6 = 18
... + 3 = 11
... + 6 = 14
... + 4 = 12
... + 12 = 13
... + 15 = 17
... + 16 = 20

511. Make up exercises on addition in such a manner that in solving each exercise the answer should be 16.

512. Count by 3's up to 18.

Count by 6's up to 18.

513. Kolia rode down the hill on a sleigh. The first time his sleigh went down 18 M. The second time it went 2 M more. How many meters did his sleigh ride during the second time?

514. The children cleared a skating rink on a river 18 M long and 2 M less in width. What was the width of the skating rink?

515. The brother had 11 books and the sister had 2 books less.

Complete the question in such a manner that the problem can be solved in one action.

Complete the question in such a manner that the problem can be solved in two actions.

516. At the beginning of last year the collective farm bought 8 plows and during this year 4 more plows. How many plows did the collective farm buy for the last two years?

517. Last year 8 tractors worked on the field of the collective farm and this year 3 tractors more worked there. How many tractors worked there this year?

518.
12 - 4 + 8
16 - 9 + 6
13 - 4 + 9
17 - 8 + 5

16 - 12 + 7
18 - 11 + 9
11 - 3 + 8
19 - 4 - 6

20 - 13 + 9
20 - 11 + 6
20 - 15 + 8
20 - 12 + 9

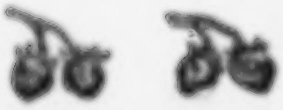
519. Count by 2 to 20.
Count by 4 to 20.
Count by 3 to 18.

MULTIPLICATION

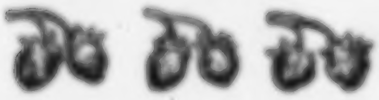
Multiplication by 2

520. Count by 2 to 20:

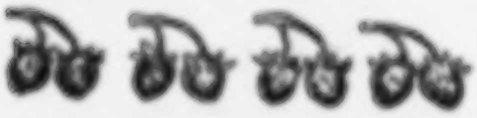
2 4 6 ....



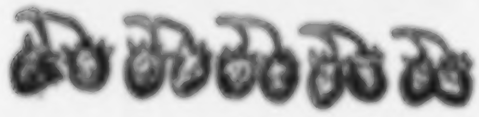
2 + 2 = 2 x 2 =



2 + 2 + 2 = 2 x 3 =



2 + 2 + 2 + 2 = 2 x 4 =

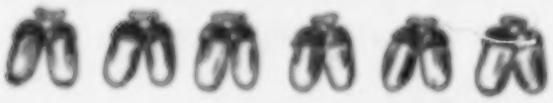


2 + 2 + 2 + 2 + 2 = 2 x 5 =

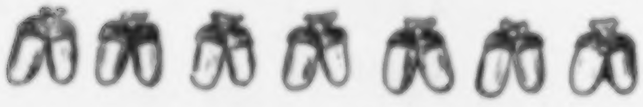
521. They took 2 eggs from the basket 3 times. How many eggs did they take in all?

522. They took 2 pieces of sugar from a sugar bowl five times. How many pieces of sugar did they take in all?

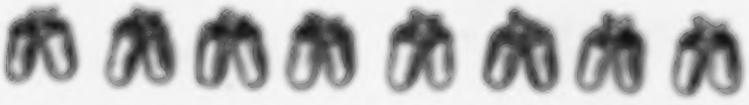
523. 2 x 2 2 x 3 2 x 4 2 x 5



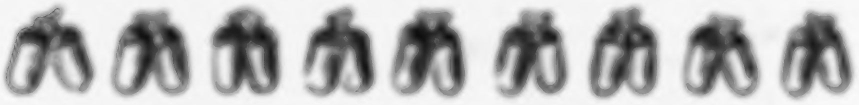
$\underline{2 + 2 + 2 + 2 + 2} + \underline{2} =$ 2 x 6 =



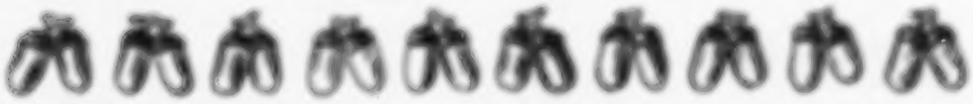
$\underline{2 + 2 + 2 + 2 + 2} + \underline{2 + 2} =$ 2 x 7 =



$\underline{2 + 2 + 2 + 2 + 2} + \underline{2 + 2 + 2} =$ $\qquad$ $2 \times 8 =$



$\underline{2 + 2 + 2 + 2 + 2} + \underline{2 + 2 + 2 + 2} =$ $\qquad$ $2 \times 9 =$



$\underline{2 + 2 + 2 + 2 + 2} + \underline{2 + 2 + 2 + 2 + 2} =$ $\qquad$ $2 \times 10 =$

2 x 2
2 x 3
2 x 4
2 x 5
2 x 6
2 x 7
2 x 8
2 x 9
2 x 10

524. Vania brought from the shed 2 logs of firewood 6 times. How many logs did he bring in all?

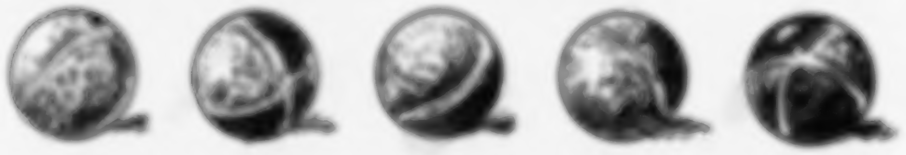
525. Children brought 2 buckets of water 8 times for watering the snow hill. How many pails of water did they bring in all?

526. Children were skating in pairs on the skating rink. There were 7 pairs of children. How many children in all were there on the skating rink?

527.
2 x 5 + 9
2 x 2 + 7
2 x 4 + 6
2 x 3 + 9
2 x 8 - 5
2 x 9 - 4
2 x 6 - 3
2 x 10 - 7
2 x 7 - 5
2 x 8 - 8
2 x 9 - 9
2 x 6 - 8

528.
2 x 6 + 5
2 x 8 - 3
2 x 7 - 7
2 x 10 - 4
2 x 9 - 3
2 x 4 + 5
2 x 3 + 9
2 x 7 - 6
2 x 4 + 11
2 x 9 - 13
2 x 8 - 15
2 x 10 - 17

529. A ball costs 2 rubles. They bought 5 such balls for a kindergarten. How much money did they pay for the balls?



530. A ball costs 2 rubles. How much must one pay for 7 such balls?

531. A teaspoon costs 2 rubles. How much do 4 such teaspoons cost?

532. A mother bought 3 teaspoons for 2 rubles each and gave the cashier 10 rubles. How much change must she receive?

533. Gera bought 8 toys for decorating a Christmas tree costing 2 rubles each and gave 20 rubles to the cashier. How much change should she receive?

534.
2 X 7 + 3
2 x 8 + 4
2 x 3 + 9
2 x 4 + 11

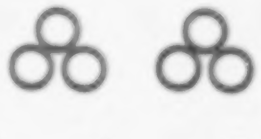
2 x 6 - 5
2 x 9 - 9
2 x 8 - 7
2 x 7 - 6

2 x 9 - 13
2 x 8 - 12
2 x 7 - 10
2 x 10 - 14

Multiplying By 3

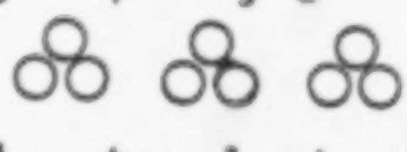
535. Count by 3 to 18.

3 6 9 . . . . .



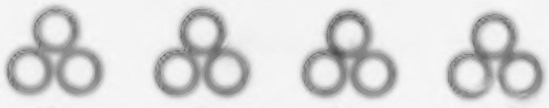
3 + 3 =

3 x 2 =

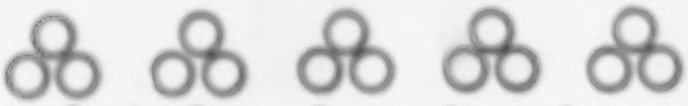


3 + 3 + 3 =

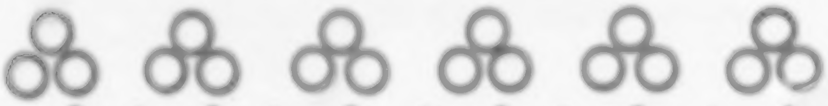
3 x 3 =



$\underline{3 + 3 + 3} + \underline{3} =$ $3 \times 4 =$



$\underline{3 + 3 + 3 +} \underline{3 + 3} =$ $3 \times 5 =$



$\underline{3 + 3 + 3} + \underline{3 + 3 + 3} =$ $3 \times 6 =$

3 x 2　　3 x 3　　3 x 4　　3 x 5　　3 x 6

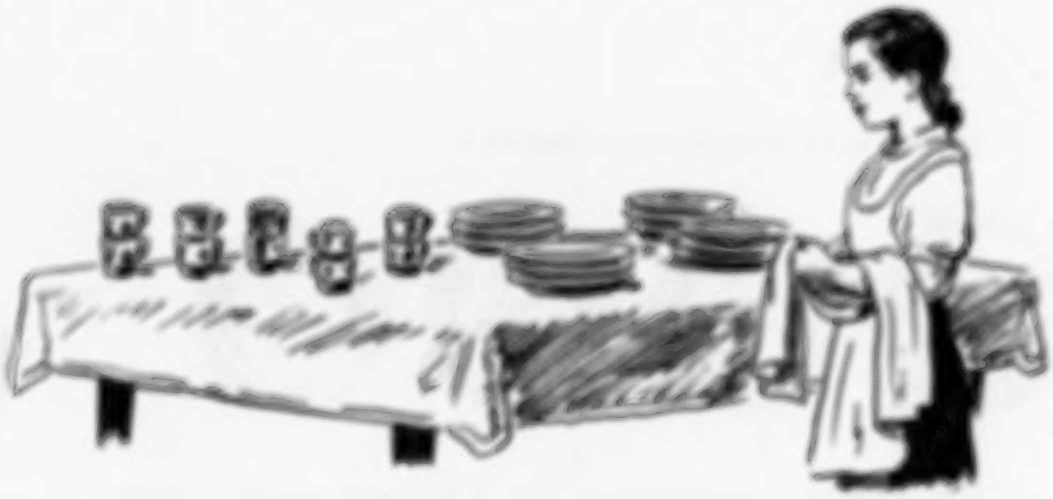
536. Put together a triangle from 3 sticks. Put together 6 such triangles. How many sticks did you use for the triangles?

537. 5 children were sitting at the table. Each was given 1 glass of milk for breakfast. How many glasses of mill did they give to the children?

538. Girls were learning how to embroider. Each girl must have one needle. How many needles must 4 girls have?

539. Each pupil needs one pen for writing. How many pens must 3 pupils have?

540.
1 x 2　　1 x 3　　1 x 4　　1 x 5　　1 x 6
2 x 2　　2 x 3　　2 x 4　　2 x 5　　2 x 6
3 x 2　　3 x 3　　3 x 4　　3 x 5　　3 x 6



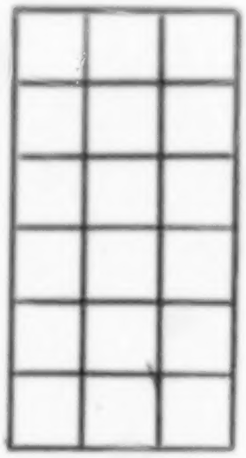
541. Make up 2 problems using the above picture.

542. One must sew 3 buttons on each shirt. How many buttons must one sew on 4 such shirts?

543.
3 x 4 + 6 3 x 6 - 4 2 x 4 + 12
2 x 2 + 13 3 x 5 - 3 2 x 8 - 5
3 x 3 + 11 2 x 9 - 5 3 x 6 - 3

544. For preparation of an album "Our Birds" 6 boys brought 2 pictures each and 5 girls brought 3 pictures each. How many pictures did the boys bring? How many pictures did the girls bring?

545.
3 x 2 + 5 3 x 2 + 8 2 x 7 - 6
3 x 4 - 6 3 x 3 + 9 2 x 6 + 7
3 x 6 - 9 3 x 5 - 7 2 x 8 - 8

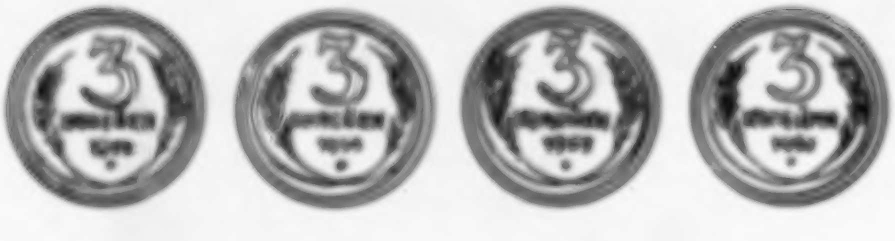


546. How many squares are there in each column?

How many columns are there?

How many squares in all?

547. How many kopeks are there?



548. Ira bought 5 envelopes for 3 kopeks each. How much money did he pay?

549. A boy bought 4 envelopes for 3 kopecks each and gave 20 kopeks to the cashier. How much must he receive in change?

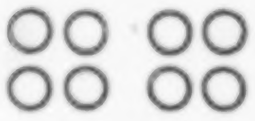
550. Mother bought 5 kilograms of apples and paid 3 rubles for each kg. She gave 20 rubles to the cashier. How much must she receive in change?

551. Outline with a pencil 6 columns of squares having 3 squares in each column. Count how many squares there are in 2 columns? in 3 columns? in 4 columns? in 5 columns? in 6 columns?

552.
3 x 5 - 12
2 x 6 - 11
3 x 6 - 14
3 x 4 - 9
3 x 6 - 12
2 x 10 - 15
2 x 8 - 5
3 x 6 - 9
3 x 3 + 5

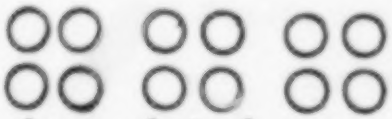
Multiplication by 4

553. Count by 4 to 20.

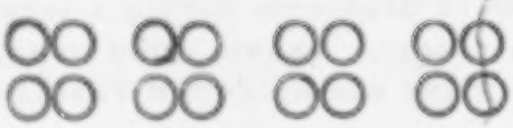


4 8 .....

4 + 4 = 4 x 2 =



4 + 4 + 4 = 4 x 3 =



$\underline{4 + 4} + \underline{4 + 4} =$ 4 x 4 =

$\underline{4 + 4 + 4} + \underline{4 + 4} =$ 4 x 5 =

$\boxed{4 \times 2 \qquad 4 \times 3 \qquad 4 \times 4 \qquad 4 \times 5}$

554. **Put together a square from 4 sticks. Put together from the sticks 4 such squares. How many sticks were used?**

How many sticks will be used for 5 such squares?

555. **A hunter went twice to hunt and each time brought back 4 birds. How many birds did he bring in all from the hunt?**

556. **Father bought the children 3 tickets to the theater for 4 rubles a ticket. How much money did he pay?**

557. **Draw a square in which there are 4 rows of squares. 4 squares in 4 rows. Count how many squares there are in 4 rows, in 3 rows, in 2 rows?**

558.

1 x 2	1 X 3	1 x 4	1 x 5
2 x 2	2 x 3	2 x 4	2 x 5
3 x 2	3 x 3	3 x 4	3 x 5
4 x 2	4 x 3	4 x 4	4 x 5

559. **I am thinking of a number. In order to guess what number I am thinking of, take 4 five times and from the number received take away two and you will have my number.**

560. An automobile has 4 wheels. How many wheels are there in 3 such autos?

561. Volodia solved 3 columns of problems during a lesson and 4 problems to each column. Vashia tried to solve 2 problems more. How many examples did Vashia solve?

Make up a problem similar to the preceding one about your own class.

562. In a Life corner there are 4 fish in each of 3 cans and 6 fish in the acquarium. How many fish are there in all in the Life corner?

563. Make up a problem similar to the preceding one.

564.
4 x 3 - 2
4 x 5 - 4
4 x 4 - 5
3 x 6 - 3
3 x 3 - 9
2 x 7 - 8
2 x 6 - 5
3 x 4 - 9
4 x 5 - 18
2 x 8 - 13
3 x 5 - 15
2 x 10 - 17

565.
1 x 9
2 x 10
3 x 5
2 x 8
4 x 4
2 x 7
4 x 5
4 x 4
1 x 6
3 x 4
2 x 9
4 x 3
3 x 2
4 x 1
2 x 6
1 x 4

566. 4 meters of material were used for one dress. How many meters of such material will be used for 3 such dresses?

567. A tailor made 4 coats. 3 meters were used for each coat. How many meters of material were used for all the coats?

568.
4 x 2 + 4
4 x 4 + 3
4 x 3 + 5
2 x 7 + 6
2 x 8 - 4
3 x 4 - 8
2 x 6 - 7
2 x 7 - 8
2 x 9 - 11
4 x 5 - 13
3 x 6 - 14
3 x 5 - 12

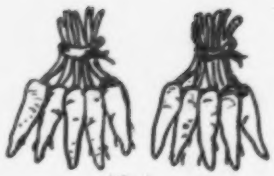
569. Mother sewed 2 dresses and 1 apron. 4 meters of material were used for each dress and 1 meter for the apron. How many meters of material were used for the dresses and apron together?

570. Mother sewed 5 shirts and 1 dress. 3 M of linen were used for each shirt and 4 M were used for the dresses. How many meters of linen were used for the shirt and dress together?

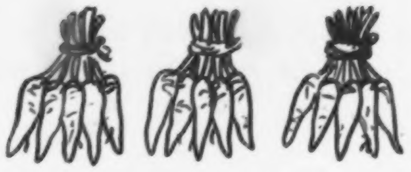
Multiplication By 5

571. Count by 5 to 20:

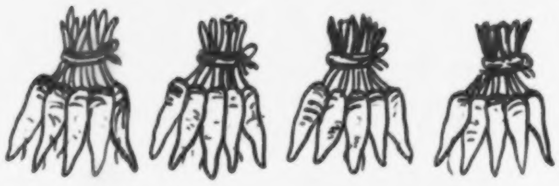
5 10 ......



5 + 5 = 5 x 2 =



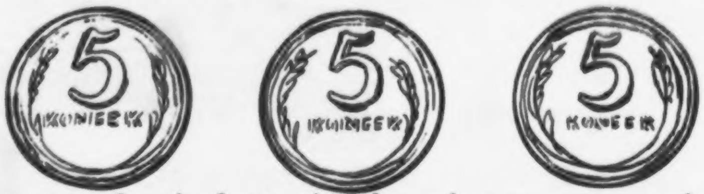
5 + 5 + 5 = 5 x 3 =



5 + 5 + 5 + 5 = 5 x 4 =

5 x 2 5 x 3 5 x 4

572. How many kopedks are there in all?



573. There are 3 windows in the classroom and 5 pots of flowers on each window. How many pots of flowers are there on the all the windows in the classroom?

574. Ura had postage stamps. He gave 5 postage stamps to each of the 4 friends. How many stamps in all did he give to his friends?

575. A girl paid 4 coins of 5 kopeks each for the needles and she paid 2 kopeks less for the buttons. How much did the buttons cost?

576. Vashia and Lucia helped Grandmother bring firewood from the shed. Vashia brought 5 logs twice and Lucia brought 3 logs more than Vashia. How many logs did Lucia bring?

577.

2 x 2
3 x 2
4 x 2
5 x 2

2 x 3
3 x 3
4 x 3
5 x 3

2 x 4
3 x 4
4 x 4
5 x 4

3 x 4
5 x 3
2 x 9
2 x 6

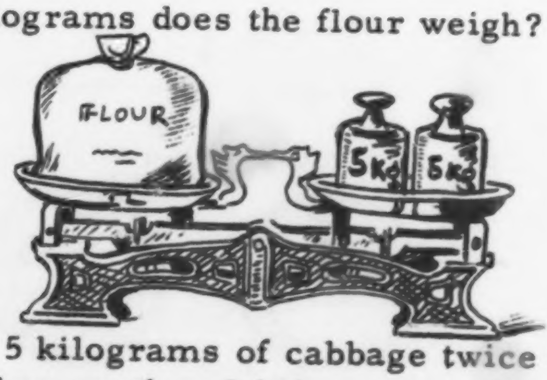
578. Find in the 1st column an example with an answer of 9? 2nd column an answer of 20? 3rd column an answer of 16?

5 x 3
2 x 6
3 x 3
2 x 9

3 x 4
2 x 8
4 x 2
5 x 4

2 x 7
3 x 6
5 x 2
4 x 4

579. How many kilograms does the flour weigh?



580. They laid out 5 kilograms of cabbage twice for one shopper and then another 2 kilograms. How many kilograms of cabbage did they weigh out in all for the shopper?

581. Make up a problem similar to the previous one but using other numbers.

582. They bought for the chickens 3 times 5 kg. of millet and then they bought another 4 kg. How many kilograms of millet did they buy in all?

583.
5 x 2 + 7
5 x 3 + 2
4 x 4 + 4
3 x 4 + 3

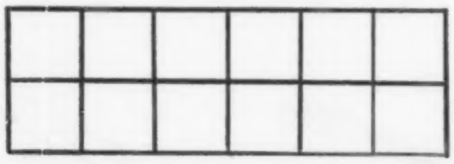
3 x 3 + 9
2 x 4 + 7
1 x 5 + 6
3 x 2 + 8

3 x 4 + 8
2 x 6 + 5
2 x 3 + 14
1 x 6 + 13

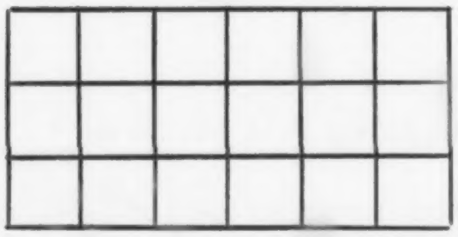
Multiplication by 6

584. Count by 6 to 18:

6 12 .. .. .



6 + 6 = 6 x 2 =



6 + 6 + 6 = 6 x 3 =

6 x 2 6 x 3

585. A week has 6 working days. How many working days are there in 2 weeks? In three weeks?

586.
6 x 2 - 2
6 x 3 - 3
6 x 2 - 4
6 x 3 - 3

4 x 4 - 9
3 x 5 - 7
3 x 4 - 9
2 x 8 - 7

2 x 3 + 13
2 x 4 + 12
4 x 5 - 7
5 x 3 - 9

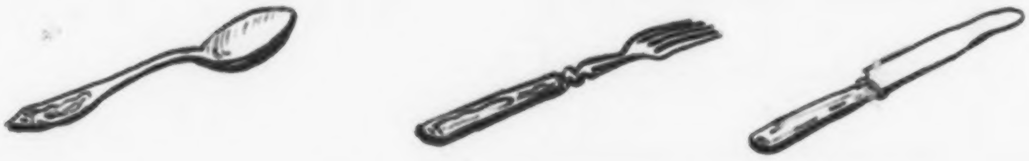
587.
3 x 3
3 x 6
5 x 2
5 x 4

3 x 2 + 11
6 x 2 - 12
6 x 3 - 13
5 x 3 - 12

588. 6 boards were used for a bird house. How many boards will be used for 3 birdhouses?

589. There were 3 stoves in the school. It is necessary to have 6 cartloads of wood for each stove for the winter. 20 carts of wood are stored, will the school have enough wood for the winter?

590. There were 60 M of linen in the piece of cloth. From it were cut off twice 6 M of material. How many meters of linen remained in the piece?



591. Make up three problems using this picture.

592. Mother bought 3 forks for 4 rubles and a knife for 3 rubles. How much money did she pay for this purchase?

593. They bought 2 spoons for 6 rubles and a fork for 4 rubles. How much money did they pay for this purchase?

594.
2 x 6 - 4
6 x 3 - 2
3 x 6 - 7
2 x 8 - 3

5 x 3 - 9
2 x 6 - 9
3 x 5 - 6
4 x 4 - 9

6 x 3 - 12
5 x 4 - 14
2 x 9 - 13
2 x 10 - 18

Multiplication by 7, 8, 9 and 10

595. How much will there be if one takes:

2 times 7 sticks?
2 times 8 sticks?
2 times 9 sticks?
2 times 10 sticks?

7 x 2	9 x 2
8 x 2	10 x 2

596. A week has 7 days. How many days are there in two weeks?

597. A collective farm woman worker milked cows and poured the milk into 2 milk cans, 8 liters in each and 4 liters in the third milk can. How many liters of milk did she milk?

598. Make up a problem similar to the preceding one which would be solved as follows:

1] 9 L x 2 = 18 L
2] 18 L + 2 L = 20 L

599. There were 8 kg. of cookies in each of the two boxes and there were 3 kg. in the 3rd box. How many kg. of cookies were there in the three boxes?

600. Outline 2 rows of squares with a pencil, 7 squares to each row. Count how many squares there are in 2 rows?

601.
6 x 3 - 5
7 x 2 + 3
3 x 3 + 4
10 x 2 - 7

6 x 2 - 8
8 X 2 - 9
5 x 3 - 7
4 x 4 - 5

9 x 2 - 12
6 x 3 - 15
10 x 2 - 17
8 x 2 - 13

Table of Multiplication by 20

1 x 2 = 3
1 x 3 = 3
1 x 4 = 4
1 x 5 = 5
1 x 6 = 6
1 x 7 = 7
1 x 8 = 8
1 x 9 = 9
1 x 10 =10

2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20

3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18

4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20

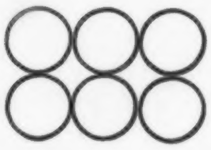
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20

6 x 2 = 12
6 x 3 = 18

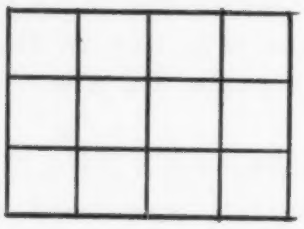
7 x 2 = 14
8 x 2 = 16

9 x 2 = 18
10 x 2 = 20

REVIEW



3 x 2 = 6
2 x 3 = 6



4 x 3 = 12
3 x 4 = 12

602.	2 x 4	2 x 7	2 x 9	3 x 5	4 x 5
	4 x 2	7 x 2	9 x 2	5 x 3	5 x 4

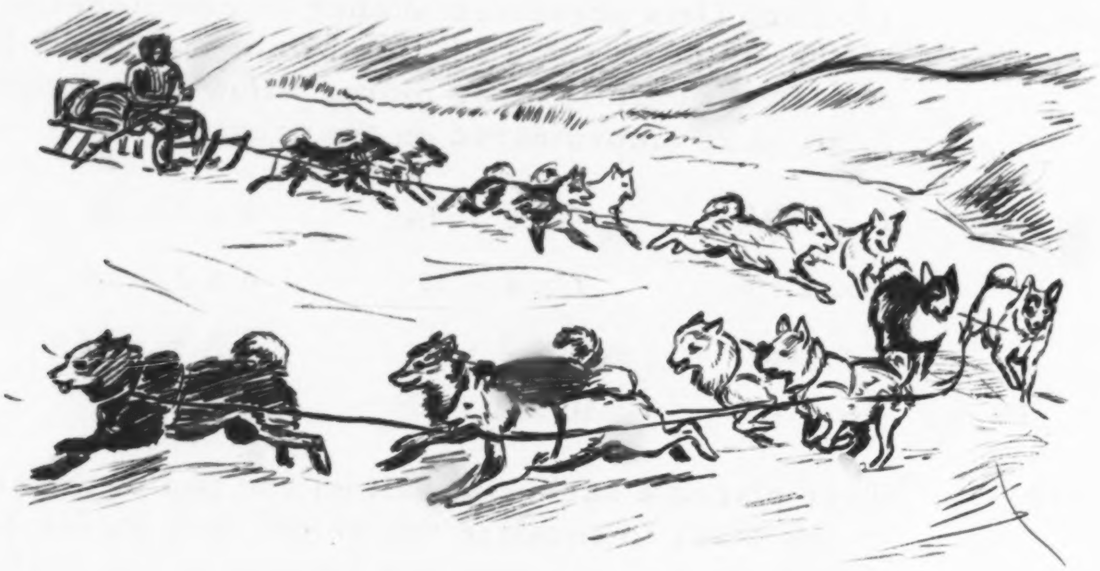
603. **Make up several examples in multiplication in such a manner that in solving each problem, the answer would be 18.**

604. **Which coin can one change 15 kopecks for? 20 kopecks?**

605. **A teacher bought tickets to a movie for .... pupils. One ticket cost 2 rubles. How much money did the teacher pay for all the tickets? Complete the problem and solve it.**

606. Make up a problem dealing with multiplication in which it is necessary to know how many meters of material would be used for three dresses?

607. Three men were riding in each of the 3 cars. Complete the question and solve the problem.



608. 6 pairs of dogs are in harness in the front and there is one dog the leader. How many dogs are there in harness in all?

609.

2 x 4 + 11
1 x 7 + 13
4 x 3 + 7
3 x 5 + 3

1 x 9 + 6
7 x 2 + 5
2 x 3 + 9
6 x 2 + 6

4 x 4 - 3
2 x 9 - 6
8 x 2 - 4
5 x 4 - 2

610. Find an example with an answer of 11, with an answerof 12, 13, 14, 15 and so forth to 20.

19 - 2
5 + 8

3 x 5
6 + 13

6 x 3
20 - 9

2 x 7
7 + 13

3 x 4
2 x 8

611. A hunter brought 12 ducks one time from the hunt and 3 ducks less another time. Complete the question in such a manner that it can be solved in one action.

612. The hunters brought at one time 7 rabbits from the hunt and another time 2 rabbits more. Complete the question in such a manner that the problem can be solved in one action.

613. Lisa and Oria presented Mother an embroidered napkin on the 8th of March. Lisa embroidered 5 corn flowers and Oria 5 cornflowers, more. How many cornflowers in all were embroidered on the napkin?

614.

2 x 7 - 5
3 x 4 - 8
6 x 3 - 9
4 x 3 - 7

3 x 5 - 14
7 x 2 - 13
5 x 3 - 11
10 x 2 - 16

4 x 5 - 18
8 x 2 - 14
3 x 4 - 12
9 x 2 - 15

615. They placed a sack with salt on one pan of the scale and on the other to equalize the weight they placed 3 weights. Two were of 2 kg. each and 1 weight of 1 kg. How many kg. did the sack of salt weigh?

616. One one pan of the scale they placed a sack of flour and on the other to equalize it, they placed 2 weights of 5 kg. each and one weight of 2 kg. How many kg. did the sack of flour weigh?

617. 5 Pioneers wanted to make 2 toys each for a kindergarten, but each one made 2 toys more. How many toys in all did the Pioneers make?

618. 6 Pioneers wanted to gather 2 kg. each of acorns for planting but each one gathered 1 kg. more. How many kg. of acorns did the Pioneers gather in all?

619.

3 x 2 + 8
2 x 8 - 16
1 x 7 + 9
5 x 3 - 12

6 x 3 - 17
2 x 10 - 14
3 x 3 + 7
7 x 2 - 9

5 x 4 - 13
8 x 2 + 4
1 x 9 + 6
3 + 5 - 8

DIVISION

Division into Two Equal Parts

620. 1 x 2 3 x 2 5 x 2 7 x 2 9 x 2
2 x 2 4 x 2 6 x 2 8 x 2 10 x 2

621. Divide evenly between 2 students:

2 notebooks 2: 2 =
4 notebooks 4 : 2 =
6 notebooks 6 : 2 =
8 pencils 8 : 2 =
10 pencils 10 : 2 =

622. A boy separated 8 pencils equally into 2 boxes. How many pencils did he pace into each box?

623. They divided equally 8 cakes between 2 girls. How many cakes did each girl get?

624. 1 x 2 2 x 2 3 x 2 4 x 2 5 x 2
2 : 2 4 : 2 6 : 2 8 : 2 10 : 2

625. 5 + 5 8 + 8 10 - 5 16 - 8
6 + 6 9 + 9 12 - 6 18 - 9
7 + 7 10 + 10 14 - 7 20 - 10

626. Divide evenly between two pupils:

12 pencils 12 : 2 =
14 pencils 14 : 2 =
16 pencils 16 : 2 =
18 notebooks 18 : 2 =
20 notebooks 20 : 2 =

2 : 2	6: 2	10 : 2	14 : 2	18 : 2
4 : 2	8 : 2	12 : 2	16 : 2	20 : 2

627. Marsha distributed 12 apples equally on 2 plates. How many apples did she place on each plate?

628. Children made 16 rabbits from mud and placed them to dry on 2 shelves, equal numbers on each. How many rabbits did they put on each shelf?

629. 14 kg. of berries are distributed equally into 2 baskets. How many kg. of berries were placed in each basket?

630.
2 : 2   6 : 2   16 : 2   8 : 2
8 : 2   10 : 2   20 : 2   16 : 2
4 : 2   14 : 2   12 : 2   6 : 2
12 : 2   18 : 2   18 : 2   12 : 2

631.
6 : 2 + 7   14 : 2 + 11   2 x 9 - 6
12 : 2 + 10   16 : 2 + 12   4 x 4 - 5
18 : 2 + 11   20 : 2 + 7   3 x 5 - 8

632. Grandmother had 10 apples. She gave 4 apples to the oldest grandson and the remaining apples between 2 younger grandchildren. How many apples did each of the two younger grandsons receive?

633. Madia, Sedia and Kolia put 8 boats in the water. Of these Madia placed 2 boats and the remaining boats were placed equally by Sedia and Kolia. How many boats did Sedia put in and how many did Kolia put in?

634. Peter had 18 stamps. He left himself 10 stamps and divided the remainder equally between 2 friends. How many stamps did Peter give each friend?

635.	3 x 4 : 2	10 : 2 + 6	2 x 9 - 7
	4 x 4 : 2	16 : 2 + 9	3 x 6 - 5
	6 x 3 : 2	6 : 2 + 8	2 x 8 - 12
	4 x 5 : 2	8 : 2 + 9	4 x 5 - 17
636.	3 x 6 : 2	16 : 2 + 8	5 x 4 - 7
	2 x 7 : 2	12 : 2 + 8	2 x 8 - 9
	4 x 3 ; 2	14 : 2 + 12	3 x 4 - 8
	2 x 9 : 2	18 : 2 + 11	6 x 3 - 15

Division into 3 Equal Parts

637.	1 x 3	3 x 3	5 x 3	4 + 4 + 4
	2 x 3	4 x 3	6 x 3	6 + 6 + 6

638. Divide equally between 3 pupils:

3 pencils	3 : 3 =
6 pencils	6 : 3 =
9 pencils	9 : 3 =
12 pencils	12 : 3 =
15 pencils	15 : 3 =
18 pencils	18 : 3 =

3: 3	9 : 3	15 : 3
6 : 3	12 : 3	18 : 3

639. Distribute 12 squares into 3 equal rows. How many pencils were there in each row?

640. Carpenters sawed a log 16 M long into 3 equal parts. What is the length of each part=

641.

1 x 3
3 : 3
2 x 3
6 : 3

3 x 3
9 : 3
4 x 3
12: 3

5 x 3
15 : 3
6 x 3
18 : 3

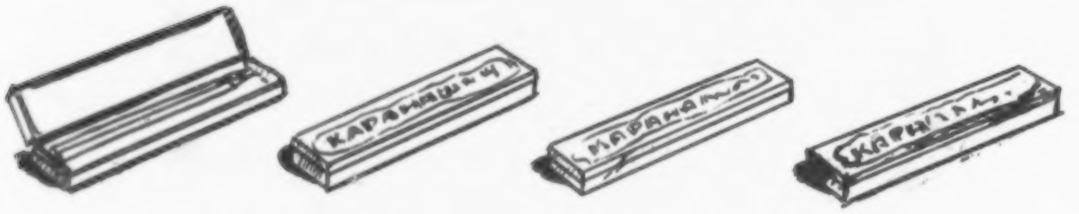
6: 3
12 : 3
18 : 3
15 : 3

642.

9	12	6
15	18	9

6 : 2
6 : 3
12 : 2
12 : 3

18 : 2
15 : 3
14 : 2
9 : 3



643. A boy distributed 17 colored pencils in the following manner: 2 pencils into 1 box and the rest divided equally into 3 boxes. How many pencils were there in the 3 boxes?

644. The woodchopper cut down 2 pines. One was 20 M long and the other was 8 M shorter. The shorter pine was sawed into 3 equal parts. What was the length of each equal part?

645. Make up a problem similar to the preceding one but using other numbers.

646.

6 : 3 + 12
12 : 3 + 14
3 : 3 + 9
9 : 3 + 16

15 : 3 + 8
18 : 3 + 6
12 : 3 + 9
9 : 3 + 8

2 x 8 - 5
7 x 2 - 6
5 x 3 - 9
4 x 5 - 7

647. I'm thinking of a number. In order to guess it multiply nine by two and divide the obtained number by three, add to the newly received number as much as it is and you will know what number I'm thinking of.

648. They paid 3 rubles for 3 identical glasses. How much did each glass cost?

649. They paid 15 rubles for 3 tablespoons. How much did each spoon cost?

650. Father bought the children 2 identical toys and paid for them 5 rubles and 1 ruble. How much did each toy cost?

651. Mother sent Ira to the store for berries. Ira bought 3 kg. of berries and paid 10 rubles and 2 rubles. How much did each kg. of berries cost?

652.
1 x 6 : 3
2 x 6 : 3
1 x 9 : 3
2 x 9 : 3

3 x 4 : 2
9 x 2 : 3
6 x 2 : 3
5 x 4 : 2

2 x 7 - 8
4 x 3 - 9
3 x 6 - 14
4 x 5 - 13

Division Into 4 Equal Parts

653. 1 x 4   2 x 4   3 x 4   4 x 4   5 x 4

654. Divide equally between 4 students:

4 cents	4: 4 =
8 cents	8 : 4 =
12 cents	12 : 4 =
16 cubes	16 : 4 =
20 cubes	20 : 4 =

$$\boxed{4 : 4 \qquad 8 : 4 \qquad 12 : 4 \qquad 16 : 4 \qquad 20 : 4}$$

655.
2 x 4   3 x 4   4 x 4   5 x 4
8 : 4   12 : 4   16 : 4   20 : 4

656. 16 birches were planted in 4 rows an equal number to each row. How many birches were planted in each row?

657. 20 Linden trees were planted equally in 2 rows. How many Linden trees were planted in each row?

658.

20: 4
12 : 2
12 : 4
12 : 3

16 : 2
16 : 4
20 : 2
20 : 4

9: 3
15 : 3
14 : 2
18 : 3

18 : 2
16 : 4
12 : 3
20 : 4

659. Find in the first column an example with an answer of 5, in the 2nd column an example with an answer of 6, in the third column an example with an answer of 4, in the fourth column an example with an answer of 7:

14:2
6 : 2
6 : 3
10 : 2

12 : 3
20 : 4
12 : 2
16 : 4

8: 4
9 : 3
8 : 2
18 : 3

12 : 4
4 : 4
14 : 2
15 : 3

660. Distribute 12 squares into 2 identical rows. How many squares will there be in each row. Distribute 12 squares into 4 similar rows, how many will there be in each row?

661. They paid 20 rubles for 4 identical cups. How much did they pay for each cup?

662. A boy bought 4 fishhooks and paid for them 2 coins of 10 kopecks each. How many kopecks did each hook cost=

663. They paid 6 coins of 2 kopecks each for 4 envelopes. How much did each envelope cost?

664.

4 : 4 + 9
16: 4 + 15
20 : 4 + 12
12 : 2 + 11

8 : 4 + 9
20 : 4 + 8
12 : 3 + 9
16 : 2 + 7

15 : 3 x 4
16 : 4 x 3
18 : 3 x 2
12 : 4 x 6

665.

2 x 4 + 9
3 x 6 - 7
2 x 7 - 12

8 : 4 + 15
20 : 4 + 9
12 : 2 + 8

2 x 9 - 15
4 x 5 - 13
5 x 3 - 12

666. They cut up eight meters of material into 4 even pieces and from each piece they made a shirt. How many meters of material were used for one shirt. They made 4 identical shirts.

667. They made 4 identical curtains from 4 meters of silk. How many meters of silk were used on each curtain?

668. A tailor used 14 meters of satin and he made a childs shirt from 2 M and from the remainder of the satin 4 identical dresses. How many meters of material did he use for each dress?

669. They gave the tailor 11 M of cloth. He made curtains from 3 M and 4 identical sheets from the remainder. How many meters of cloth were used for each bed sheet?

Division Into 5 Equal Parts

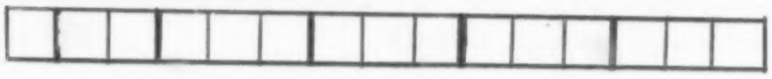
671. 1 x 5 2 x 5 3 x 5 4 x 5

672. Divided equally between 5 pupils:

5 cubes	5:5
10 cubes	10:5
15 cubes	15:5
20 cubes	20:5

5:5	10:5	15:5	20:5

673. A strip of 15 squares was divided equally into 5 parts. How many squares were there in each part?



674.

1 x 5
5 : 5

2 x 5
10 : 5

3 x 5
15 : 5

4 x 5
20 : 5

675. There are 15 liters of milk in 5 pitchers. Each pitcher having the same amount of milk as the next. How many liters of milk were there in one pitcher?

676. Distribute 20 squares into 4 identical rows. How many squares will there be in each row.

Distribute 20 squares into 5 identical rows. How many squares will there be in each row?

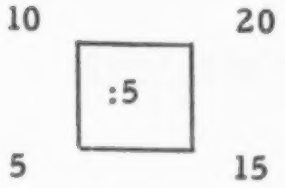
677.

5 : 5 + 12
10 : 5 + 9
20 : 5 + 8
15 : 5 + 16

10 : 5 + 9
15 : 5 + 8
10 : 2 + 7
20 : 5 + 9

2 x 10 - 2
2 x 8 - 4
3 x 6 - 9
4 x 4 - 6

678.



10 : 2
10 : 5
15 : 3
15 : 5

20 : 2
20 : 4
20 : 5
5 : 5

6 : 2
3 : 3
12 : 2
9 : 3

679. Serejia had 19 kopecks and Nisha had 3 kopecks less. Nisha bought with his money 4 pens, how much did each pen cost?

680. Make up a problem similar to the preceding one that would be solved as follows:

1] 16 rub. - 4 rub = 12 rub.

2] 12 rub. : 2 = 6 rub.

681. Marucia had 18 cents and Klavia had 2 kopecks more. Klavia bought for her money 2 identical pencils. How much did each pencil cost?

682.

18: 3 x 2
15 : 5 x 4
16 : 4 x 3
9 : 3 x 6

20 : 5 + 13
18 : 3 + 7
6 : 3 + 9
12 : 2 + 14

6 x 3 - 13
4 x 3 - 7
5 x 3 - 6
6 x 2 - 9

Division into 6 Equal Parts

683. 1 x 6 2 x 6 3 x 6

684. Divide into 6 equal parts 6 sticks; 12 sticks; 18 sticks.

6 : 6 12 : 6 18 : 6

685. They carried 18 logs from the forest equally on 6 wagons. How many logs did they carry on each wagon?

686. Carpenters sawed a 12 M long log into 6 equal parts. What was the length of each part?

687. Divide into 6 equal parts a strip of paper consisting of 18 squares. How many squares will there be in each part?

688.
3 x 5 - 4
2 x 9 - 6
4 x 4 - 3
8 x 2 - 5

12 : 6 + 9
8 : 2 + 9
15 : 3 + 7
18 : 3 + 8

6 x 3 - 12
4 x 4 - 13
5 x 3 - 11
5 x 4 - 16

689.
2 x 6
6 x 2
12 : 6
12 : 2

3 x 6
6 x 3
18 : 3
18 : 6

4 x 5
5 x 4
20: 4
20 : 5

2 x 4
4 x 2
8 : 2
8 : 4

3 x 4
4 x 3
12 : 3
12 : 4

690. A carpenter made 12 tables in 3 days an equal number every day. How many tables did he make a day?

691. The workmen in the carpentary shop had to make 16 wardrobes in 6 days, but made 2 wardrobes more. They made the same number every day, how many did they make a day?

692.
4 x 4 - 7
3 x 6 - 9
5 x 3 - 6
2 x 7 - 8

3 x 5 - 14
4 x 5 - 13
4 x 5 - 13
2 x 10 - 16

12 : 4 + 16
12 : 6 + 17
12 : 3 + 15
20 : 4 + 13

Division Into 7, 8, 9, and 10 Equal Parts

693.

1 x 7	1 x 8	1 x 9	1 x 10
2 x 7	2 x 8	2 x 9	2 x 10

7 : 7	8 : 8	9 : 9	10 : 10
14 : 7	16 : 8	18 : 9	20 : 10

694. They use 14 kg. of grain a week in the kindergarten. An equal amount every day. How many kg. of grain do they eat daily?

695. Make up a problem similar to the preceding one in which it is necessary to divide 7 kilograms by 7.

696. They made 8 identical shirts from 16 meters of linen how many meters of linen were used on each shirt?

697. Make up a problem in which it is necessary to divide 18 M by 9.

698.

7 x 2	8 x 2	9 x 2	10 x 2
2 x 7	2 x 8	2 x 9	2 x 10
14 : 2	16 : 2	18 : 2	20 : 2
14 : 7	16 : 8	18 : 9	20 : 10

699. Find in the first column an example with an answer of 1, in the second column an example with an answer of 2, in the third column an example with an answer of 3, in the fourth column with an answer of 4.

14 : 7	12:3	6 : 6	20 :10
10 : 5	18 : 9	18 : 3	20 : 5
16 : 8	9 : 3	20 : 4	12 : 4
10 : 10	15: 3	18 : 6	15 : 5

700. Make up several examples of division in such a manner that in the solution of each problem there will be an answer of 2.

701. They use 13 kg. of oats as feed for geese. And during the second week k kilogram more. How many kg. of oats did they spend a day during the second week=?

702. Make up a problem similar to the preceding one which would be solved as follows:

1] 11 kg. + 3 kg. = 14 kg.
2] 14 kg. : 7 = 2 kg.

703.
12 : 6 + 16
18 : 9 + 18
18 : 6 + 9
14 : 2 + 8

12 : 6 x 7
14 : 7 x 8
18 : 9 x 6
18 : 6 x 5

4 x 4 - 9
5 x 3 - 6
2 x 9 - 5
4 x 5 - 13

REVIEW

704.
18 : 3
3 x 5
13 + 7

15 - 8
12 : 3
2 x 8

20 : 10
6 x 2
6 + 9

7 + 11
4 + 9
16 - 13

705. They selected 11 drawings for the exhibit of the best drawings from the second class and 2 less from the first class. How many drawings were selected from the first and second class together?

706. Voria read 5 books in February and 2 books more in March. How many books did Voria read in February and March together?

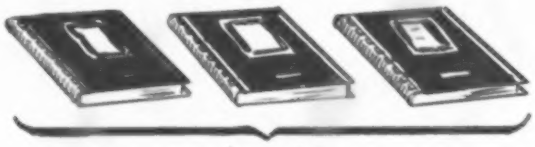
707. Make up a problem similar to the previous one about the number of books you have read in February and March.

708. During the last year a collective farm worker received 16 sacks of wheat for his work in the collective farm. This year he received 4 sacks more. How many sacks of wheat did he receive during this year?

709.
16 : 4 + 15
12 : 6 + 9
18 : 3 + 8
12 : 2 + 9
15 : 3 + 7
14 : 2 + 9
5 x 3 - 4
2 x 9 - 6
5 x 3 - 7
6 x 3 - 9
3 x 6 - 13
2 x 10 - 17

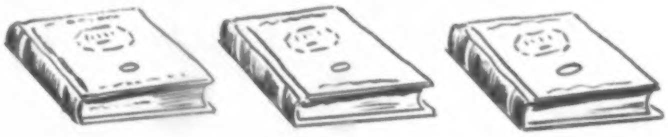
710. Make up several examples of multiplication in such a manner that each answer will be 12.

711. Make up a problem in division using the following picture.



6 rubles

712. Make a problem in multiplication using the following picture.



6 rub. 6 rub. 6 rub.

713. Make up a problem in which it is necessary to take 8 twice. Make up a problem in which it is necessary to divide 8 into 2 equal parts.

714. Two pupils brought 9 beans each for planting. They planted all the beans in a box into 3 equal rows. How many beans did they plant in each row?

715. Make up a problem similar to the preceding one with other numbers.

716.
16 : 8 + 9
14 : 2 + 6
18 : 6 + 15
20 : 10 + 18
3 x 5 - 9
9 x 2 - 7
2 x 8 - 13
10 x 2 - 9
2 x 4 : 8
2 x 10 : 5
9 : 3 x 4
6 x 3 : 9

717. Make up several problems in division in such a manner that each answer will be 3.

718. The Pioneers were making a birdshelter. 2 groups made 6 bird shelters each and the 3rd one made 5 bird shelters. How many bird shelters in all did the Pioneers make?

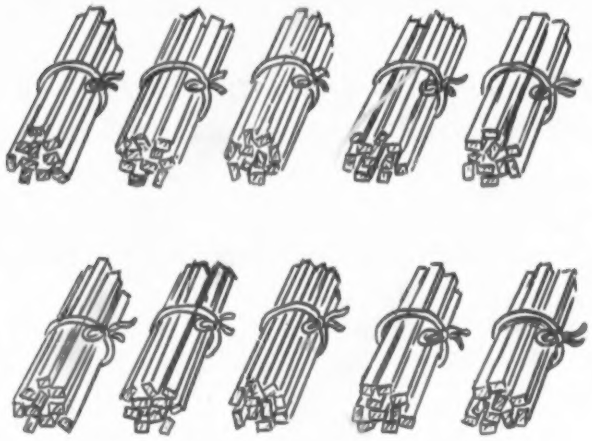
719. They planted 7 apple trees in a small garden and then 11 more. All the apples were planted in 2 identical rows. How many apples were in each identical row?

720. Make up a problem similar to the preceding one but with other numbers.

721. 3 x 4 - 9
16 : 2 + 5
7 x 2 - 8
18 : 3 + 14
2 x 8 : 4
15 : 3 x 2
9 : 9 x 8
4 x 5 : 10
9 x 2 - 13
20 : 4 + 14
3 x 4 - 12
18 : 9 + 9

THE FIRST HUNDRED

Counting and Writing of Numbers



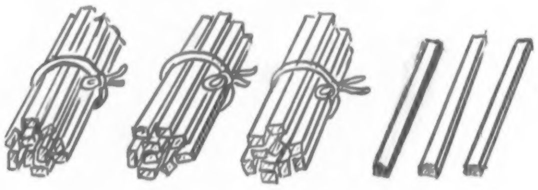
722. How many sticks are there in each bundle? How many sticks are there altogether?

723. Set aside 4 tens of sticks, 7 tens, 3 tens, 9 tens.

724. Set aside 20 sticks, 40 sticks, 60 sticks, 90 sticks. How many tens make up each of these numbers.

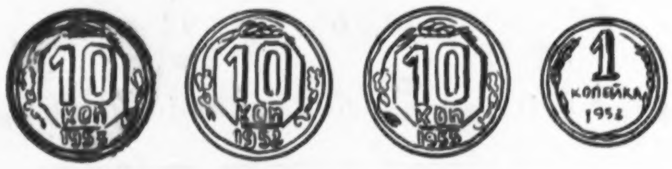
725. 1] Put down 5 tens of sticks. Next put down 5 sticks. How many sticks are there in all?

2] Put down 8 tens of sticks. Next put down 8 sticks. How many sticks are there in all?



726. How many sticks are there in the drawing? How many tens and units in this number?

727. Set aside 54 sticks. How many tens and ones are there in this number.



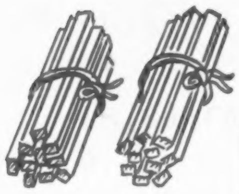
728. How many kopeqks are drawn here. How many tens and ones in this number?

729. A boy paid 9 coins of 10 kopecks each for the ruler. How much did the ruler cost?

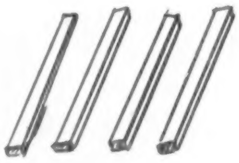
730. A girl paid 6 coins of 9 kopecks each and a nichel for a pen. How much did the pen cost?

731. Make up from the coins of the cut out table:

42 kopecks; 65 kopecks ; 93 kopecks;



Tens	Ones
2	4



732. Put down in the left hand square of the table a picture with the number 3 and in the right hand square one with the number 5. Read the obtained number?

733. Read the numbers: 27, 43, 78, 56, 92, 84, 61, 36, 54, 71, 99, 44, 68, 87, 22, 63.

Units are written in the first place to the right and tens in the second.

734. Write down the numbers: thirty-five, sixty-eight, forty-six ninty-two.

735. Read the numbers: 30, 60, 40, 70, 90. How many tens are there in each of these numbers?

736. Write down these numbers: thirty-, forty,, seventy, ninety, forty-nine.

737. Find the following figures in the book of problems:

36, 40, 63, 80, 92

738. What page follows pg. 56? what follows pg. 29? pg. 39? 69? 89?

739.

Table of the Numbers of the First Hundred

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96,	97	98	99	100

Find in the this table of numbers: 5, 15, 25, 35, 45, 55, 65, 75, 85, 95.

Find in this table of numbers: 3, 23, 43, 63, 83

740. What numbers are missing in the following row?

40	41	42		44	45	46	47			50

741. Name the numbers of the houses on the right side of your street? On the left side of your street?

742.
14 + 2 - 5
13 + 6 - 4
11 + 9 - 3
15 + 5 - 7

18 - 5 + 2
17 - 6 + 4
20 - 7 + 5
20 - 5 + 4

7 + 11 - 6
9 + 10 - 5
7 + 13 - 5
4 + 16 - 7

743. Make up a problem in which it is necessary to take 4 three times.

744.
8 + 4 - 6
7 + 8 - 9
4 + 9 - 8
6 + 7 - 9

12 - 7 + 9
14 - 8 + 7
17 - 9 + 5
13 - 9 + 7

18 - 3 - 12
19 - 2 - 14
20 - 1 - 17
20 - 6 - 13

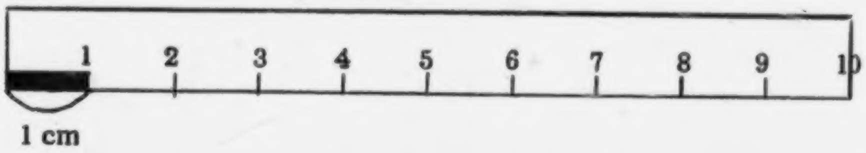
745. Make up a problem in which it is necessary to divide 20 by 4?

746.
3 x 2 x 3
2 x 5 x 2
2 x 4 x 2
2 x 2 x 3

2 x 6 : 3
4 x 4 : 2
2 x 10 : 5
1 x 8 : 4

7 : 7 x 9
15 : 3 x 4
18 : 6 x 4
16 : 4 x 5

Centimeters



747. Show on the ruler one centimeter, 5 centimeters, 9 centimeters.

The word centimeter is abbreviated cm.

748. Show on the meter the length of 10 cm, 20cm., 30cm., 40 cm., 50 cm., 60 cm., 70 cm., 80 cm., 90 cm., 100 cm.

749. Show on the yardstick the length of 15 cm., 25 cm., 35cm., 45 cm., 55 cm., 65 cm., 75 cm., 85 cm., 95 cm., 100 cm.

1 Meter has 100 Centimeters

1 M = 100 cm.

750. Measure the length of the straight line: ____________________

751. Measure the length of the width of your notebook [in cm.]?

752. Draw a striaght line 10 cm. long?

753. Measure the length of your dress, sleeves in a manner that it is done by the seamstress.

754. Make a ruler 20 cm. long from cardboard or wood?

755. From a strip of paper 18 cm long cut off 4 cm. What is the length of the resulting strip.

756. A strip of paper 15 cm long is divided into 3 equal parts. What is the length of each part?

757.
6 + 13
3 + 17
8 + 5
7 + 9

18 - 7
19 - 14
12 - 9
20 - 18

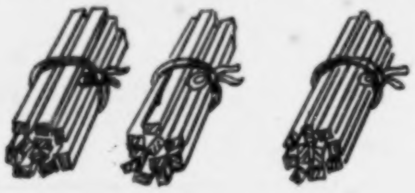
8 x 2
5 x 4
3 x 6
2 x 9

14 : 2
12 : 3
18 : 9
12 : 6

Addition of Even Tens

758. Add by tens to ten, until you have 100.
Add by twenty's to 20, until you have 100.

759. They bought at first 20 pencils and then another 10.
How many pencils did they buy in all?



2 tens + 1 ten = 3 tens

20 + 10 = 30

760.
30 + 10
60 + 10
40 + 10
70 + 10
20 + 20
50 + 20
80 + 20
70 + 20
10 + 30
50 + 30
30 + 30
70 + 30
10 + 40
30 + 40
40 + 40
60 + 40

761. There were 30 men in the Pioneer troop. They took 10 more school boys for the 1st of May into the troop. Complete the question and solve the problem.

762. There are 30 Pioneers in one group and as many in the other. How many Pioneers are there in 2 groups?

763.
20 + 20
50 + 10
70 + 20
30 + 30
30 + 30
30 + 40
50 + 30
60 + 40
50 + 40
60 + 10
60 + 30
80 + 20
6 + 14
5 + 7
18 - 5
14 - 9

764.
30 + 50
50 + 50
20 + 60
40 + 60
10 + 70
30 + 70
10 + 80
10 + 90
10 + 50 + 30
10 + 80 + 10
4 x 5 + 60
2 x 10 + 70

765. Increase: 40 by 10; 60 by 20; 50 by 30.

766. In January the depth of the snow was 40 cm and in February it was 10 cm more. What depth was the snow in February?

767. The children were measuring the depth of the snow. It was 50 cm deep in the fields and it was 20 cm higher in the forest. What was the depth of the snow in the forest?

768/ Children were doing long jumps. Metia jumped 70 cm, and Vitia jumped 20 cm further. What distance did Vitia jump?

769. Children brought for the classroom library 20 books the first day and 10 books more the second day. How many books did the children bring in all?

770. Make up a problem similar to the preceding one.

771.
20 + 60 + 10
10 + 70 + 20
10 + 40 + 30
30 + 20 + 20

40 + 20 + 10
10 + 80 + 10
20 + 50 + 20
30 + 40 + 10

4 x 5 : 2
2 x 8 : 4
6 x 2 : 3
9 x 2 : 6

772. The width of the river was 40 meters during the winter. In the Spring during the flood it became wider by 50 M. What was the width of the river during the Spring?

773. Rooks flew over on the 20th of March and starlings 10 days after the rooks. When did the starlings fly over?

774. Pioneers of one group made 30 birdhouses for the Day of the Birds and the Pioneers of another group made 10 birdhouses more, than the first group. How many birdhouses did the Pioneers of both groups make?

775.
20 + 30 + 30
10 + 20 + 70
30 + 60 + 10
20 + 50 + 20

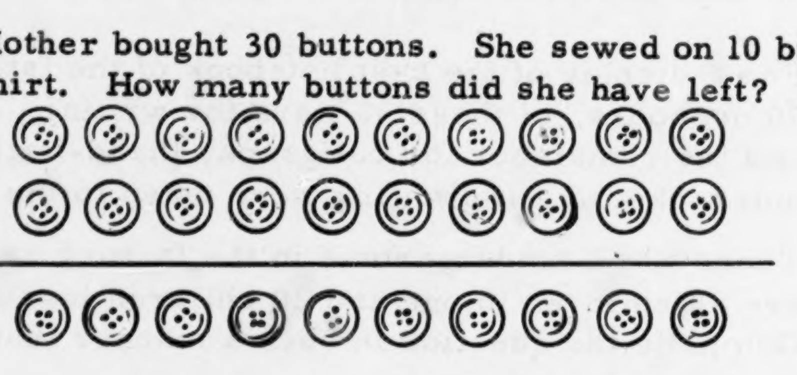
6 + 13 - 4
7 + 8 - 6
9 + 4 - 7
8 + 6 - 9

18 - 13 + 7
19 - 14 + 9
20 - 13 + 7
20 - 17 + 8

Subtraction of Even Tens

776. Take away by tens from 100 until you reach 0.

777. Mother bought 30 buttons. She sewed on 10 buttons on the shirt. How many buttons did she have left?



3 tens. - 1 ten = 2 tens

30 - 10 = 20

778.
20 - 10
40 - 10
70 - 10
90 - 10
30 - 20
60 - 20
50 - 20
90 - 20
40 - 30
60 - 30
80 - 30
70 - 30
60 - 40
50 - 40
90 - 40
100 - 40

779. There are 40 pupils in the class. 30 pupils joined the library. How many pupils did not yet join the library?

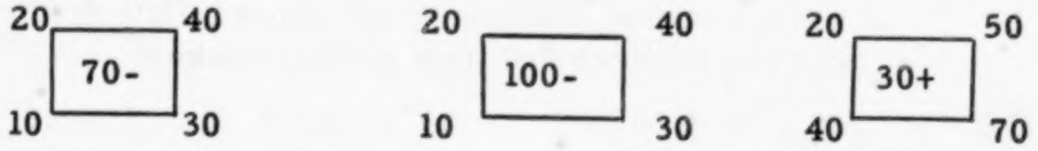
780. In the village there are 70 homes. In the first week they brought electricity to 30 homes and in the 2nd week to the remaining. How many homes did they bring electricity to in the 2nd week?

781. School boys cleared a playground for games. The length of the playground was 60 M, its width was 20 M more. What width was the playground?

782. From a strip of paper 40 cm long cut off 10 cm. What length is the remaining strip?

783.
60 - 10
40 - 20
70 - 30
90 - 20
50 - 30
100 - 10
80 - 40
90 - 30
100 - 40
90 - 10
70 - 40
100 - 30
17 - 4
20 - 7
7 + 9
13 - 8

784.



785.
70 - 50
90 - 50
70 - 60
100 - 60
80 - 70
100 - 70
90 - 70
100 - 90
50 - 30
30 + 50
80 - 30
80 - 50
70 + 30
20 + 70
90 - 20
70 - 70

786. During the month of April there were 16 clear days, 4 cloudy days and the remaining days were rainy. There were 30 days in April. How many rainy days were there in April?

787. For a display of the best notebook of the 1st class. They took 70 notebooks, of these 30 were for writing, 20 for arithmetic and the remainder for caligraphy [hand-writing]. How many notebooks for handwriting were taken to the display?

788. There are 2 kindergartens in the factory settlement. There are 80 children in one and 20 children less in the other. Complete the question in such a manner that the problem will be solved in one action.

789. There are 2 groups in Pioneers camp. In one groups there are 40 men and in the other 10 men less. Complete the question in such a manner that it can be solved in 2 steps?

790.
80 - 60 + 50
60 - 20 + 40
70 - 50 + 80
90 - 60 + 70

100 - 80 + 60
70 - 60 + 90
100 - 70 + 50
80 - 50 + 60

4 x 4 : 8
3 x 6 : 2
2 x 8 : 4
5 x 4 : 10

791. Increase: 40 by 20; 80 by 20; 70 by 30;

Decrease: 50 by 10; 70 by 30 ; 60 by 20.

792. Add 30 to an unknown number and obtain 50. What was the unknown number? -

793.
10 + . . . = 30
50 + . . . = 60
. . . + 20 = 80

794. Pioneers must plant 30 trees. They planted 4 rows of 5 trees in each row the first day. How many trees are left for them to plant?

795. The pupils decided to plant 50 trees in a school garden, they already planted 2 rows of 10 trees each. How many trees remainded for them to plant?

796. There are 14 pages in one book and in the other 4 pages more. A girl was reading the second book for 3 days an equal number of pages per day. How many pages did she read each day?

797. There are 20 pages in one book and in another 4 pages less. A boy was reading the 2nd book 2 days, an equal number of pages each day. How many pages did he read a day?

798.
20 + . . . = 30
40 + . . . = 60
50 + . . . = 100
30 + . . . = 70

. . . + 50 = 70
. . . + 40 = 90
. . . + 90 = 100
. . . + 30 = 80

6 + 12 - 5
4 + 16 - 13
3 + 9 - 7
4 + 7 - 9

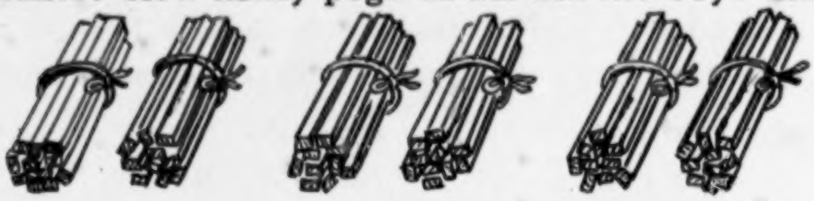
Multiplication With Round Tens

799.
20 + 20 + 20 + 20 + 20
30 + 30 + 30

40 + 40
50 + 50

10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10

800. Each of three boys made 20 pegs for the kitchen garden plants. How many pegs in all did the boys make?



2 tens x 3 = 6 tens

20 x 3 = 60

801.

10 + 10 + 10 + 10
10 x 4

20 + 20 + 20
20 x

802.

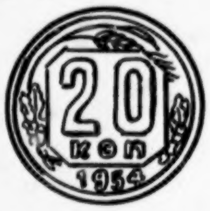
10 x 2
10 x 5
10 x 3
10 x 6

10 x 8
10 x 7
10 x 8
10 x 10

20 x 2
20 x 3
29 x 4
20 x 5

30 x 2
30 x 3
49 x 2
50 x 2

803. How many kopecks will be made by 2 coins of 20 kopecks each? 4 such coins? 5 such coins?



804. Collect from the coins of the cutout table 50 kopecks, 30 kopecks, a ruble.

805. A factory builds 3 homes for the workers. Each home has 30 apartments. How many apartments in all are there in the homes?

806.

50 x 2
20 x 4
10 x 9

10 x 4
20 x 3
30 x 3

30 x 2
20 x 5
40 x 2

10 x 6
20 x 4
30 x 3

807.

10 x 8
10 x 10
20 x 2

20 x 4
20 x 5
30 x 3

30 x 2
50 x 2
40 x 2

20 x3 + 30
30 x 3 - 20
50 x 2 - 60

808. The students were placed in 4 rows of ten men a row during the lesson of Physical Culture. How many men were there in the lesson?

809. There are 4 streets in the village. Planners planted 20 trees on each street. Complete the question and solve the problem.

810. They have to make 80 desks in thecarpenter shop. The shop produced 10 desks a day for 6 days. How many more desks remained to be made?

811. Make up a problem similar to the preceding one but with other numbers.

812.

10 x 4 + 20
10 x 3 + 60
10 x 6 - 40
10 x 8 - 50

20 x 2 + 30
30 x 2 + 20
20 x 4 + 10
40 x 2 - 70

14 + 4 - 6
13 + 5 - 7
17 + 3 - 8
16 + 4 - 9

813. Find in the first column an example with an answer of 100, in 2nd column answer of 12, third column answer of 2.

20 x 3 - 50
50 x 2 - 80
30 x 3 + 10

2 x 2 x 2
3 x 2 x 2
2 x 4 x 2

2 x 6 : 4
4 x 5 : 10
2 x 9 : 6

814. There were 4 rows of apple trees in the garden, 5 apple trees in each row. They planted 30 apple trees more during the spring. How many apple trees are there in the garden in all?

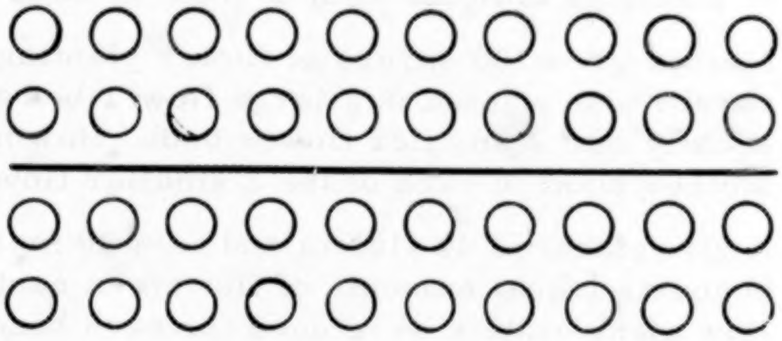
815. 30 shrubs of currants grew in the garden. They planted 5 more rows of currants, 10 shrubs in each row. How many shrubs of currants were there in the garden in all?

816. The brother had 3 coins of 20 kopeks each and the sister had 30 kopeks more. How much money did the sister have?

817. They paid 5 coins of 20 kopeks each for the pencils and 30 kopeks less for the notebook? How much did the notebook cost?

Division of Even Tens

819. They divided evenly 40 inkwells between 2 classes. How many inkwells did each class receive?



4 tens : 2 = 2 tens.

40 : 2 = 20

820.
20 : 2
40 : 2
60 : 2
80 : 2
100 : 2
30 : 3
60 : 3
90 : 3
40 : 4
80 : 4
50 : 5
100 : 5
60 : 6
70 : 7
80 : 8
90 : 9

821 . Two senatorians examined 40 students. Each of them examined the same number of children. How many students did each senatorian examine and question?

822.. 40 pupils were divided equally into 4 teams for work in a school kitchen garden [victory garden]. How many students were in each team?

823. Make up a problem similar to the preceding one in which it is necessary to divide 15 into 3 equal parts.

824. Draw a square in which there are 10 rows of small squares to a row, then divide this larger square into 2 equal parts. How many squares will there be in each small part?

825.
20 x 2
40 : 2
10 x 6
60 : 6
30 x 3
90 : 3
20 x 4
80 : 4
60 : 2
30 x 2
50 : 5
10 x 5
100 : 10
80 : 2
60 : 3
100 : 5

826.
100 : 10
80 : 2
60 : 3
50 : 5
80 : 4
100 : 2
20 x 5
60 + 40
30 x 3
3 x 4 : 6
10 x 8 : 4
2 x 8 : 4

827. Father had 50 shrubs of flower plantings. He bought 30 shrubs more and said to his son. "We will plant all the plantings evenly into 4 flower beds!"How many shrubs of plantings did they want to plant in each flowr bed?

828. Mother grew 100 shrubs of flower plantings. Of these 60 shrubs she planted in a large flower bed and the remainder equally into 2 smaller flower beds. How many shrubs did Mother plant in each of the 2 smaller flower beds?

829. A girl gathered 40 violets and then 20 more. She made 2 bouquets [equal amounts of flowers in each] from the violets. How many violets were used for each bouquet?

830.
20 + 60
70 - 50
30 x 3
80 : 2
90 - 60
100 : 5
20 x 4
20 + 70
60 : 3
10 x 10
80 : 4
80 - 50
6 x 2 : 3
4 x 2 : 8
5 x 4: 10
2 x 9 : 6

REVIEW

831.
2 + 5
9 - 7
10 - 8
2 + 3 + 1 + 4
10 - 1 - 2 - 3
4 + 5 - 8 + 6
10 - 7 + 3 - 5
1 + 8 - 5 + 3
7 - 2 + 3 - 8

832.
10 + 7
9 + 10
16 - 10
18 - 8
13 + 5
14 + 3
12 + 8
17 + 3
4 + 15
6 + 13
15 - 3
17 - 6
15 - 4
17 - 5
20 - 3
20 - 8

833. Zera and Lienia helped Grandfather to spade around the currant shrubs. Zera spaded around 8 shrubs and Lienia around 3 shrubs more. Complete the question in such a manner that the problem can be solved in one action.

834. Father spaded around 9 trees and Kostia around 4 trees less. Complete the question in such a manner that the problem can be solved in one action.

835. During the last year, there were 60 horses in a community farm and this year there are 20 horses more. Complete the question and solve the problem.

836. During last year the factory built 8 houses for the workers and this year 4 houses more. How many houses in all did the factory build during the two years?

837. Draw two straight lines, one 8 cm long and the other 2 cm longer.

838. Draw two straight lines, one 12 cm long and the other 3 cm shorter.

839.
12 + 3 - 5
14 + 5 - 8
13 + 7 - 4
15 + 3 - 6
16 - 5 + 8
19 - 7 + 5
20 - 8 + 6
20 - 9 + 7
8 + 11 - 6
4 + 12 - 5
2 + 18 - 7
5 + 14 - 6

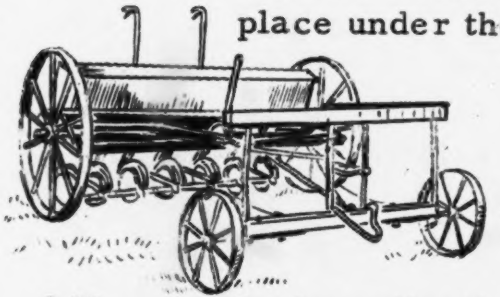
840.
7 + 8
5 + 9
9 + 8
6 + 7
13 - 5
11 - 6
14 - 8
18 - 9
18 - 12
15 - 13
19 - 14
17 - 16
20 - 13
20 - 17
20 - 11
20 - 14

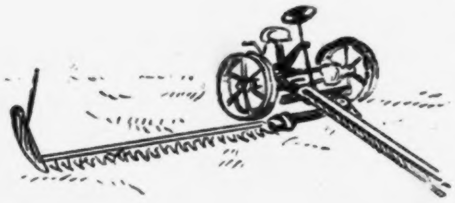
841. Make up several examples on addition of two numbers so that the solution of each problem would yield 18 as an answer.

842. Make up several examples on subtraction of two numbers so that the solution of each problem would yield an answer of 4.

843. One hand had 12 chickens and the other 5 chickens more than the first hand. How many chickens did the second hand have?

844. Grandmother placed 9 chicken eggs and 3 less duck eggs under a brood hen. How many eggs in all did Grandmother place under the brood hen?





845. In the collective farm smithy they repaired 7 seeding machines during one week and 9 during the other week. They had to repair in all 20 feeding machines. How many feeding machines are left to be repaired?

846. They had to repair 17 mowers at the collective farm. They repaired 6 mowers during one week and 8 during another week. How many mowers were left to be repaired?

847.
4 + 8 + 5
6 + 7 + 3
9 + 4 - 9
8 + 3 - 9

13 - 7 + 5
15 - 8 + 4
17 - 3 - 9
20 - 9 - 4

16 - 13 + 9
19 - 14 + 8
20 - 17 + 15
20 - 12 + 11

848.
2 x 7
2 x 9
3 x 4
3 x 6

4 x 4
4 x 5
5 x 3
6 x 2

6 x 3
7 x 2
9 x 2
8 x 2

2 x 6 + 5
2 x 3 + 13
2 x 8 - 9
5 x 4 - 14

849. The workers were overhauling the machines at the collective farm. During the first 5 days they were fixing 3 machines a day and they fixed 4 machines during the 6th day. How many machines did the workers repair?

850. For a war newspaperfour Pioneers drew 2 pictures each and one Pioneer drew 3 pictures. How many pictures in all did they draw?

851. Make up a problem similar to the preceding one but with other numbers.

852. It was necessary to spade around 23 trees in the school garden. During the first day the pupils spaded 3 rows of trees, 6 trees to a row. How many trees are there left for them to spade?

853. Make up a problem about work of the students in your school in the school garden.

854.
3 x 5 + 4
2 x 4 + 7
3 x 4 + 8
3 x 2 + 13
2 x 8 - 9
7 x 2 - 6
3 x 5 - 8
2 x 6 - 9
4 x 4 - 14
6 x 3 - 13
5 x 4 - 17
3 x 4 -12

855.
14 : 2
15 : 3
16 : 4
10 : 5
5 : 5
12 : 6
18 : 6
18 : 3
14 : 7
18 : 9
16 : 8
20 : 10
16 : 8 + 9
15 : 3 + 14
6 x 3 - 15
2 x 8 : 4

856. Draw a straight line 12 cm long and divide it into 3 equal parts. How many cm will there be in each part?

857. Children brought 18 sticks to class. Of these they placed 6 twigs into a can and the remaining twigs equally into 3 bottles. How many twigs did they place into each bottle?

858. Children planted 17 onions. Of these 8 onions were planted in a box and the remainder evenly into 3 pots. How many onions did they plant in each of the pots?

859.
6 x 3 : 3
2 x 4 : 8
2 x 8 : 4
4 x 5 : 2
14 : 7 x 6
15 : 5 x 4
18 : 9 x 7
20 : 10 x 8
12 : 3 : 2
15 : 5 : 3
20 : 5 : 2
18 : 2 : 3

860.
60 + 20
100 - 60
80 - 30
20 x 5
90 : 3
80 : 4
20 + 70 - 60
30 x 2 : 6
100 : 5 x 3

861. Make up a problem in which it si necessary to add 2 to 10? Make up a problem in which it is necessary to subtract 2 from 10? Make up a problem in which it is necessary to take 10 twice. Make up a problem in which it is necessary to divide 10 by 2?

862. 30 pupils were working in the school garden. Of these 6 were raking the leaves, 14 were diggin holes and the remaining children were spading around the trees. How many pupils were spading around the trees?

863. Each of 3 girl students brought 6 twigs of Lilacs to the class. The twigs were divided equally into 2 cans. How many lilac twigs did they place in each can?

864. 13 + 4 - 2
14 + 6 - 8
12 + 8 - 6
4 + 7 - 9
6 + 9 - 8
7 + 5 - 6
14 - 11 + 17
19 - 14 + 12
20 - 17 + 14

865. 20 x 4 - 50
60 : 2 : 3
100 : 5 x 4
19 - 13 + 12
4 x 3 - 9
10 x 2 - 13
18 - 7 - 2
7 x 2 + 6
80 : 4 : 5

866. Make up several examples of subtraction in such a manner that in solving these examples the answer would be 30. Make up examples of division so that the answer in solving would be 3.

867. The distance from the house to the well is 40 M. How many meters will a man walk from the house to the well and back?

868. In the garden they planted 2 rows of raspberry shrubs, 40 shrubs in each row and 30 shrubs less of currants. How many shrubs of currants did they plant?

869. Pioneers planted 2 rows of birch trees in the fall and3 rows in the spring. They planted altogether 100 birches, an equal number in each row. How many birches were planted in each row?

870/ Tonia and Grisha helped Mother to weed carrots. The three of them weeded 20 rows of carrots. Mother weeded 8 rows and the remaining rows were weeded by Tonia and Grisha equally. How many rows of carrots did Tonia and Grisha weed each?

871. The young workers planted 70 trees. Of these 30 trees were planted in a cool yard and the remainder on both sides of the street, equal numbers on each side. How many trees did they plant on each side of the street?

872. 50 + 40 - 20
80 - 20 - 30
70 - 60 + 40
60 : 2 x 3
30 x 3 - 50
80 : 4 : 2
100 : 2 + 30
10 x 9 - 70
100 : 5 x 3

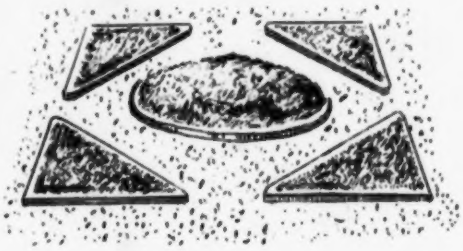
873. 10 x 4 : 2
20 x 3 : 2
30 x 3 : 9
50 x 2 : 5
10 x 8 : 4
20 x 5 : 10
10 x 6 : 2
40 x 2 : 4
30 x 2 : 3

874. The pupils were measuring the kitchen garden with a string 10 M long. They placed 8 lengths of the string on the long side of the garden and 5 lengths on the wide side. What is the width and length of garden in Meters?

875. Make up a problem in which you measure the length of your kitchen garden at school.

876. The children sewed 5 seeds of pease in a box, 20 seeds to a row. Ten seeds did not take, how many seeds grew?

877. The Pioneers planted 90 clumps of flower plantings; of these 10 clumps were on a circular flower bed and the remainder evenly on 4 of the triangular flower beds. How many clumps of plantings did they plant on each of the triangular beds?



878.
3 x 6 : 2
2 x 3 : 3
4 x 5 : 10
2 x 6 : 4

16 : 8 x 7
16 : 4 x 3
12 : 2 x 3
18 : 9 x 6

15 : 5 : 3
18 : 2 : 3
20 : 4 : 5
16 : 2 : 2

879.
3 x 4 : 6
3 x 2 : 6
18 : 3 x 2
15 : 5 x 6

20 x 3 : 2
30 x 3 : 9
80 x 4 x 5
60 : 6 x 8

70 : 7 + 90
80 : 4 + 70
30 x 2 - 50
40 x 2 - 30

880. Cut out a stip of paper 40 cm long. Fold it in two. What will be the length of one-half of this strip?

881. A river is 20 M wide. Vashia swam to the middle and back. How many meters did he swim?

882. 9 boys and 7 girls divided evenly into 2 groups for playing. How many children were in each group?

883. Make up a problem similar to the previous one but using other numbers.

884. A girl carried 30 daisies and then another 10. Of all the daisies they made 2 similar wreaths. How many daisies did they use for each wreath?

885.
20 x 4 - 50
10 x 10 - 80
30 x 3 + 10
10 x 4 + 30

60 : 3 x 4
40 : 2 x 5
20 x 4 : 2
2 x 9 : 6

7 + 8 - 6
14 + 5 - 13
16 - 9 + 5
20 - 16 + 9

886.
14 : 7 x 8
18 : 9 x 6
12 : 2 x 3

30 x 3 : 9
40 x 2 : 8
50 x 2 : 5

20 x 4 : 2
30 x 2 : 6
50 x 2 : 10

887. 1] Make up several examples of multiplication in such a manner that in solving each examples the answer would be 20.

887. 2] Make up several examples of division in such a manner that in solving each example the answer would be 5.

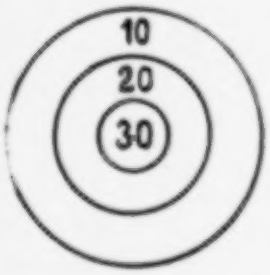
888. A master workman made 4 oars for each of the four boats and 2 oars for one boat. How many oars in all did he make?

889. 14 Pioneers and their leader of the troop went boat riding. All of them sat down in 3 boats, an equal number in each boat. How many men were in each boat?

890. Summer vacation lasts 3 months. How many books can one read during the vacation if one reads ..... books a month. Complete and solve this problem.

891. You entered the first class when you were 7 years old. You must study 10 years in the school. How old will each one of you be when you graduate from school?

892. The Game: Draw 3 circles on the ground. The children throw small sacks with sand in turn into the circle. If you into the inner circle it counts 30 points, into the middle circle 20 points and the large circle 10 points. The one who gets 100 points first wins the game. Serejia and Galia played the game. Serejia scored twice into the middle circle and one time in the inner circle. How many points did Serejia get? Galia scored 3 times into the small circle and once into the large one. How many points did Galia get? Who won- Serejia or Galia?
You too play such a game.



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